



PlastAgri
Your Sustainability Partner

GRAIN HANDLING & MILLING EQUIPMENTS



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'Force is always with you...'





PlastAgri
your sustainability partner

About PlastAgri

PlastAgri has been established under ITEM MAKINA roof which manufactures machines & spare parts for poultry slaughterhouses and food processing facilities in Bandırma since 1976.

PlastAgri produces mainly plastic injection molding group products, milling spare parts and handling equipments. In the production of Agricultural Elevator Buckets & handling equipments %100 molding is done by itself.

It serves especially for feed factories, flour factories, pulse processing and grain storage facilities. PlastAgri aims to be one of the leaders of production of Elevator Buckets and Handling Equipments in national and international arena.

PlastAgri manufactures elevator buckets and handling equipments through the necessary R&D processes by eliminating end user main problems.

PlastAgri aims to be one of the best manufacturers in the industry with the principle of "Solution and Sustainability" by manufacturing both elevator buckets and other handling equipments at international standards and providing the best service to the sector.



‘Güç Herzaman Seninle...’

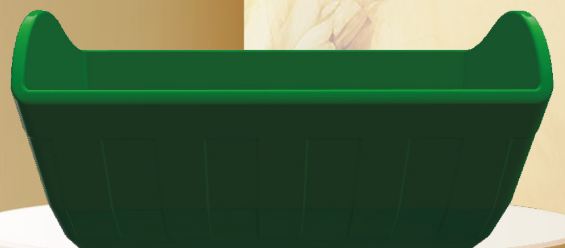
ELEVATOR BUCKETS



Ultra-Force
Polyamide Nylon



Pro-Force
High Density Polyethylene
HDPE



Eco-Force
Polyethylene PE

'Force is With You...'



ECO-FORCE

PE- Polyethylene



REINFORCED POLYETHYLENE

- ✓ Fractures
- ✓ Quick Wears
- ✓ Discharging Problems
- ✓ Capacity Decrease
- ✓ Frequent Maintenance
- ✓ High Energy Consumption
- ✓ Bucket Changes

will **END**

'Force is With You...'

ECO-FORCE

PE- Polyethylene



Wheat

Bran

Flour

Pulses

Dry Grains

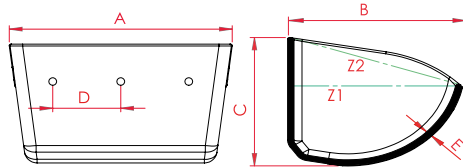
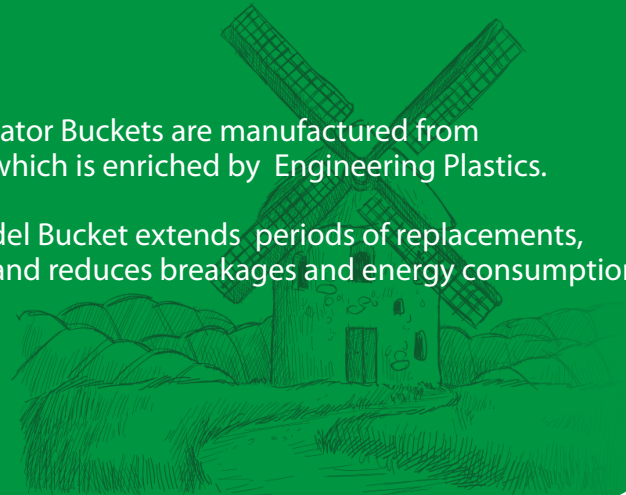
Powdery Items

Coffee

Lentil

Eco-Force Elevator Buckets are manufactured from Polyethylene which is enriched by Engineering Plastics.

Eco-Force Model Bucket extends periods of replacements, maintenance and reduces breakages and energy consumption.



■ Holes upon request

■ %5 Tolerance in Bucket Dimensions

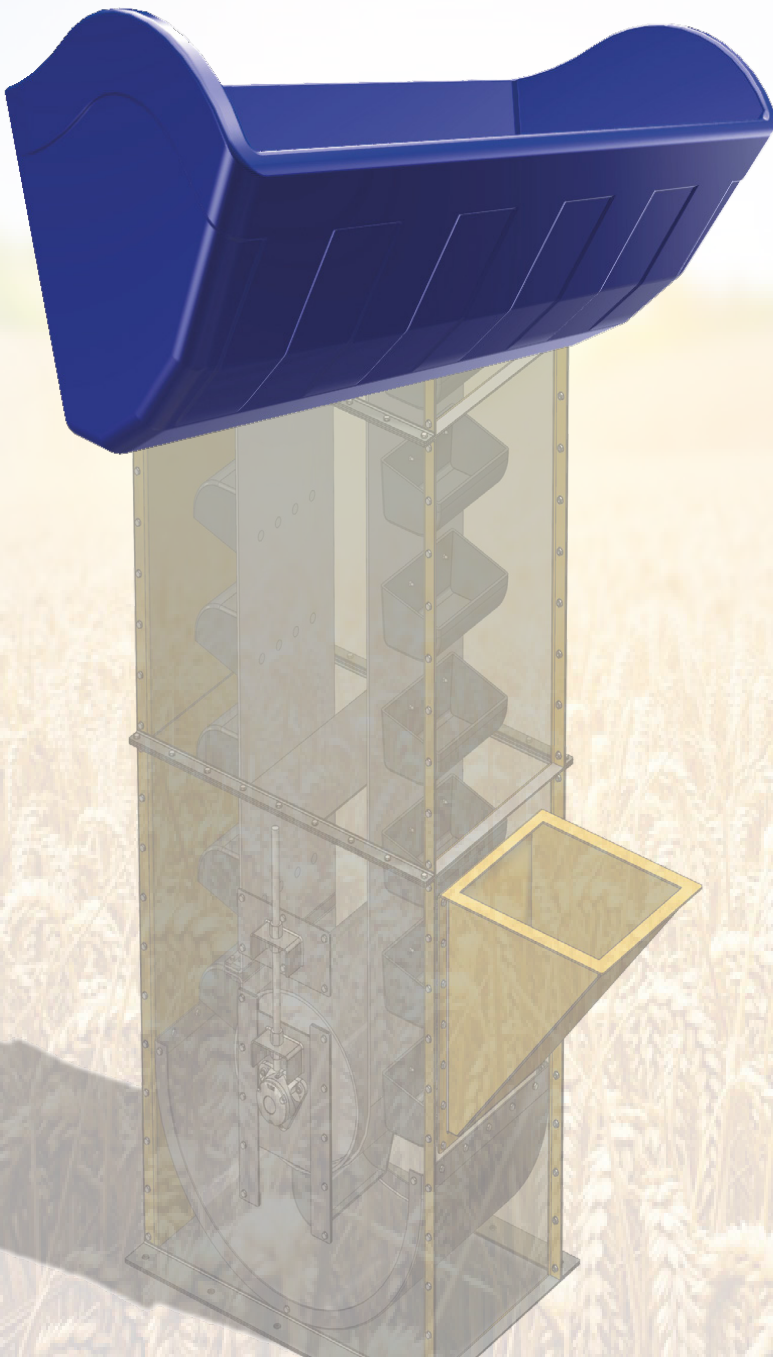
Product Code	Inch	A mm	B mm	C mm	D mm	E mm	Thickness mm	Capacity Z2 Ltr.	Capacity Z1 Ltr.
PA-100	4x3	100	90	60	50	2	4	0,300	0,200
PA-120	4x4	120	110	65	60	2	4	0,380	0,250
PA-140	5x4	140	120	85	70	2	5	0,68	0,520
PA-160	6x5	162	130	95	80	2	5	0,96	0,700
PA-180	7x5	182	140	105	90	2	5	1,42	1,15
PA-200	8x5	200	150	115	100	2	5	1,750	1,30
PA-220	8x6	220	160	120	110	2	6	2,20	1,35
PA-230	9x5	240	140	130	92	3	6	2,35	1,50
PA-240	9x6	245	180	135	120	2	6	3,00	2,40
PA-260	10x7	260	180	140	80	3	7	3,50	2,55
PA-280	11x7	280	200	160	90	3	7	4,10	3,50
PA-290	11x6	280	170	145	90	3	7	3,40	3,00
PA-300	12x6	300	175	145	80	4	8	4,00	3,25
PA-310	12x7	300	215	155	90	3	8	4,60	4,00
PA-320	13x8	320	215	160	95	3	8	6,00	4,35
PA-330	13x8	335	215	225	95	4	10	9,00	6,50
PA-340	14x7	340	210	150	90	4	8	5,80	4,20
PA-350	14x8	360	220	230	75	5	10	9,50	7,200
PA-370	15x7	385	195	180	90	4	10	6,70	5,30
PA-380	15x8	375	210	215	75	5	10	10,50	7,20
PA-400	16x8	420	215	225	70	6	10	11,00	8,50

‘Force is With You...’



PRO-FORCE

High Density Polyethylene - HDPE



- ✓ Food Grade
- ✓ Maximum Strength
- ✓ Long Term Use
- ✓ Reinforced Corners
- ✓ Anti-Static
- ✓ Maximum Abrasion Resistant
- ✓ Flexibility Against Impacts

**Provides
Maximum
Productivity**

'Force is With You...'

PRO-FORCE

High Density Polyethylene-HDPE



Wheat

Grains

Legumes

Coffee

Barley

Feed

Rice

Flour

Bran

Pulses

Powdery Items

Sun Flower

Lentil

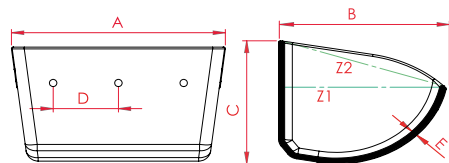
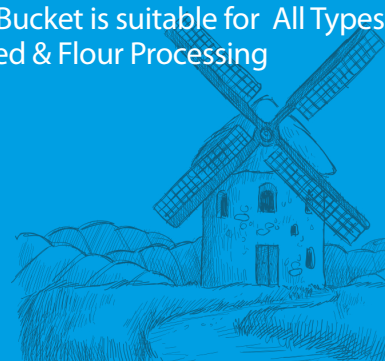
Soya Bean

Corn

Bulghur

Pro-Force Elevator Buckets are manufactured from High Density -HDPE - Polyethylene which is Food Grade product. HDPE Elevator buckets is mostly preferred by food processing factories.

Pro-Force Model Bucket is suitable for All Types Grains, Pulses, Feed & Flour Processing



■ Holes upon request

■ %5 Tolerance in Bucket Dimensions

Product Code	Inch	A mm	B mm	C mm	D mm	E mm	Thickness mm	Capacity Z2 Ltr.	Capacity Z1 Ltr.
PA-100	4x3	100	90	60	50	2	4	0,300	0,200
PA-120	4x4	120	110	65	60	2	4	0,380	0,250
PA-140	5x4	140	120	85	70	2	5	0,68	0,520
PA-160	6x5	162	130	95	80	2	5	0,96	0,700
PA-180	7x5	182	140	105	90	2	5	1,42	1,15
PA-200	8x5	200	150	115	100	2	5	1,750	1,30
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PA-230	9x5	240	140	130	92	3	6	2,35	1,50
PA-240	9x6,5	245	180	135	120	2	6	3,00	2,40
PA-260	10x7	260	180	140	80	3	7	3,50	2,55
PA-280	11x7	280	200	160	90	3	7	4,10	3,50
PA-290	11x6	280	170	145	90	3	7	3,40	3,00
PA-300	12X6	300	175	145	80	4	8	4,00	3,25
PA-310	12X7	300	215	155	90	3	8	4,60	4,00
PA-320	13X7,5	320	215	160	95	3	8	6,00	4,35
PA-330	13X8	335	215	225	95	4	10	9,00	6,50
PA-340	14X7,5	340	210	150	90	4	8	5,80	4,20
PA-350	14X8	360	220	230	75	5	10	9,50	7,200
PA-370	15x7	385	195	180	90	4	10	6,70	5,30
PA-380	15x8	375	210	215	75	5	10	10,50	7,20
PA-400	16x8	420	215	225	70	6	10	11,00	8,50

'Force is With You...'



ULTRA-FORCE

PA-NYLON - Yüksek Darbe Dayanımlı Poliamid



- ✓ Ultra-High Performance
- ✓ Non - Breakable Structure
- ✓ High Impact Resistant
- ✓ Light in Weight
- ✓ Anti-Static & Flame Resistant
- ✓ Maximum Abrasion Resistant
- ✓ Flexible & Dynamic Structure
- ✓ Reinforced Corners

**Provides
Maximum
Productivity**

'Force is With You...'



ULTRA-FORCE

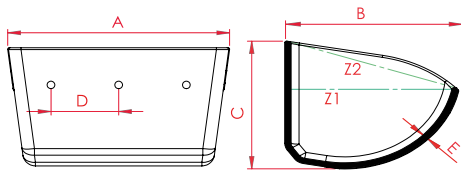
PA-Nylon

**Wheat
Grains
Dry Grains
Coffee
Barley
Feed
Rice
Flour
Pellet Feed
Mine**

**Bran
Pulses
Powdery Items
Sun Flower
Lentil
Soya Bean
Corn
Bulgur
Salt
Cement**

Ultra-Force Elevator Buckets are manufactured from PA- Nylon which is enriched by Engineering Plastics.

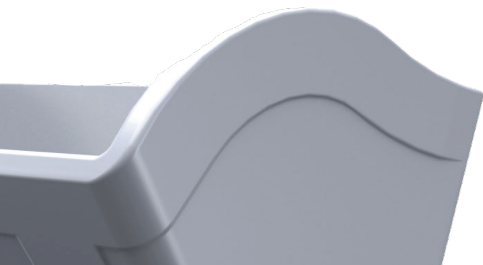
Ultra-Force Model Bucket is suitable for all types Grains, Animal Feeds, Flour, Legumes, Grain Storage and other Food processing.



■ Holes upon request

■ %5 Tolerance in Bucket Dimensions

Product Code	Inch	A mm	B mm	C mm	D mm	E mm	Thickness mm	Capacity Z2 Ltr.	Capacity Z1 Ltr.
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PA-140	5x4	140	120	85	70	2	5	0,68	0,520
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PA-240	9x6,5	245	180	135	120	2	6	3,00	2,40
PA-260	10x7	260	180	140	80	3	7	3,50	2,55
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PA-290	11x6	280	170	145	90	3	7	3,40	3,00
PA-300	12X6	300	175	145	80	4	8	4,00	3,25
PA-310	12X7	300	215	155	90	3	8	4,60	4,00
PA-320	13X7,5	320	215	160	95	3	8	6,00	4,35
PA-330	13X8	335	215	225	95	4	10	9,00	6,50
PA-340	14X7,5	340	210	150	90	4	8	5,80	4,20
PA-350	14X8	360	220	230	75	5	10	9,50	7,200
PA-370	15x7	385	195	180	90	4	10	6,70	5,30
PA-380	15x8	375	210	215	75	5	10	10,50	7,20
PA-400	16x8	420	215	225	70	6	10	11,00	8,50



'Force is With You...'

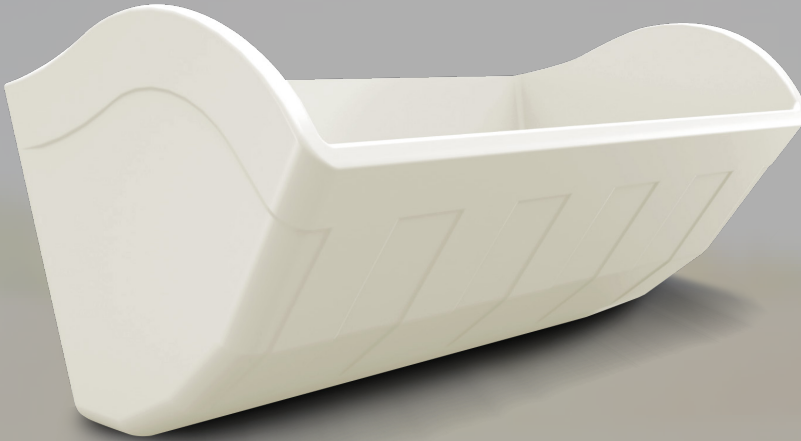
SMART-FORCE

NON-STICK ELEVATOR BUCKET

In the production of cattle feed, before the pelletizing process, the powdered product is mixed with Molasses and Silempe which are sticky products. Molasses is a sticky additive for animal feed. Within a short time Elevator capacity decreases due to sticky product carriage.

PlastAgri has found a great solution by producing NON-STICK Elevator Bucket. Thanks to Smart-Force NON-STICK Elevator Bucket Capacity decrease will end.

The fact that the elevator buckets are made of non-stick plastic will eliminate this situation. As a result, PlastAgri has developed NON-STICK buckets for Molasses Elevators. Thanks to non-stick bucket, stickiness problem will be solved.



- ✓ Molasses Stickness
- ✓ Capacity Decreases
- ✓ Cleaning & Time Wasting
- ✓ Energy Wasting
- ✓ Frequent Bucket Changing
- ✓ Elevator Stops
- ✓ Breakage & Quick Wear

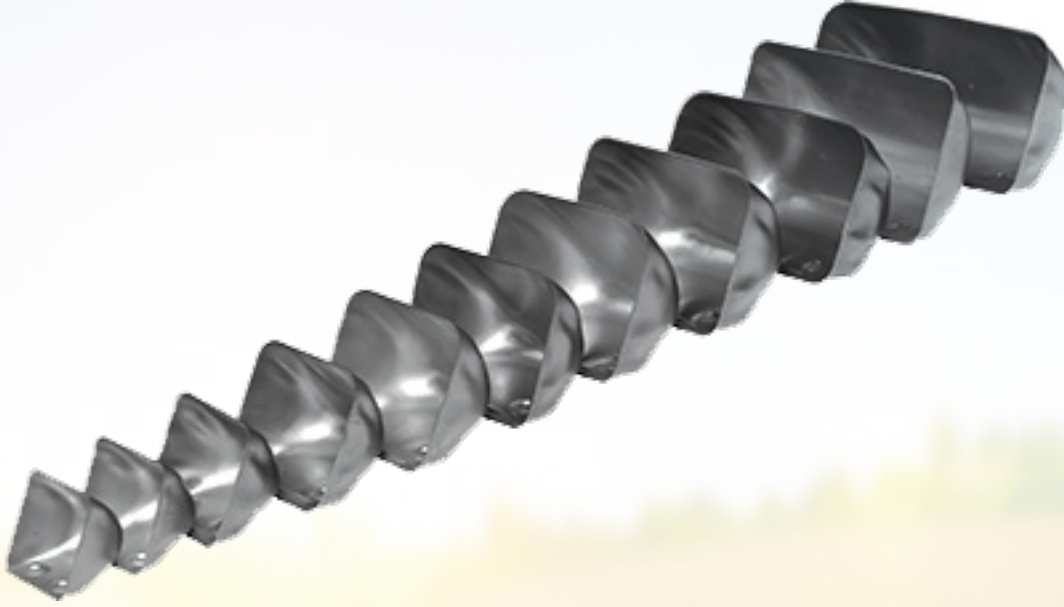
will **RUN OUT!**



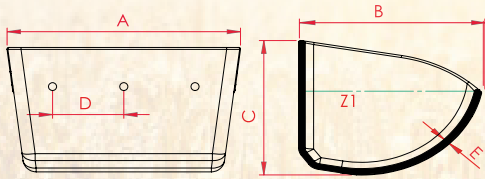
'Force is With You...'

Metal Elevator Buckets

PlastAgri produces and supplies Metal Elevator Buckets. Although we recommend plastic elevator buckets, metal buckets are also preferred by users. Based on this preference, PlastAgri also produces and supplies Metal Elevator Bucket.



**Metal Elevator Bucket
Dimension Table**



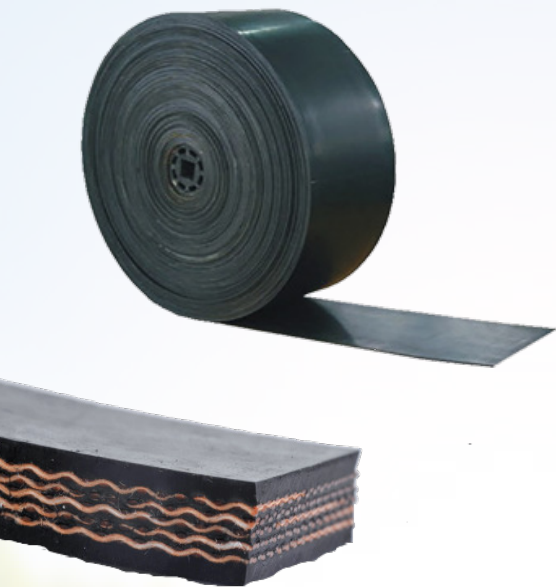
- Holes upon request
- %5 Tolerance in Bucket Dimensions

Product Code	A	B	C	Hole mm	Hole Qu.	Thickness	Capacity Water LT.
MTL -90	90	85	50	50	2	1,5	0,145
MTL -100	100	95	60	60	2	1,5	0,245
MTL-120	120	110	65	60	2	1,5	0,380
MTL-140	140	125	80	70	2	1,5	0,580
MTL-160	160	130	85	80	2	1,5	0,700
MTL-180	180	145	90	90	2	1,5	1,000
MTL-200	200	140	90	100	2	1,5	1,500
MTL-210	200	160	105	105	2	1,5	1,800
MTL-220	220	140	95	110	2	1,5	2,100
MTL-230	220	165	105	110	2	1,5	2,300
MTL-250	250	150	95	80	2	1,5	2,500
MTL-255	250	180	120	80	2	1,5	3,000
MTL-260	260	180	120	90	3	1,5	3,450
MTL-280	280	175	110	90	3	1,5	4,220
MTL-310	310	175	115	90	3	1,5	5,000
MTL-330	330	215	115	80	4	1,5	6,200

'Force is With You...'

ELEVATOR BELTS

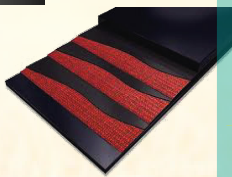
TECHNICAL DETAILS



Production Standard	ISO 14890 DIN 22102 and 22104	Fabric Type	EP125-160-200
Cord Fabric	Nylon / Polyester	Breaking Strength- Warp	min. 200 N/mm
Belt Weight	~11 kg/m	Breaking Strength- Weft	min.N/mm100
Rubber Quality	ISO 37 ≤17 MPA	Cover Coating Thickness	EN ISO 583 2+1/-0,3mm
Breaking Strenght	≥ 20 N/mm	Under Coating Thickness	EN ISO 5832+1/-0,2mm
Abrasion	≤ 130 mm	Holes	Any
Coating Density	1,50 ± 0,3 gram/cm	Hardness	ISO 7619-1 65 +/- 5ShA
Heat Density		Esneklik	≤150mm
Width	EN ISO 1000 +/- 1% mm	Density	ISO 2781+AC1 1,14 +/- 0,02g/cm ³
Wthickness	EN ISO 583 12 +/- 10% mm	Upper Coting Cord Fabr.	EN ISO 252 ≥ 10,00N/mm ³
Plies	4-5-6	Between Plies	EN ISO 252 ≥ 12,00 N/mm
Breaking Strenght	≥ 1000 kN/m	Under Coating Cord Fabr.	EN ISO 252 ≥ 10,00N/mm
Breaking at Elongation	EN ISO 283 ≥ 10	Nitrile	%100 if
Maximum Elongation	≤ 1,5%	Edge Covering	Cut & Open

EXTRA FEATURES

- Oil Resistant
- Cut & Closed Edged
- Special Coated Belts
- Heat Resistant Belts
- EP Cord Fabric Belts
- Anti-Static Belts



BELT TYPES

EP	Strenght	Plies	Coating	Thickness
125	630 kg/cm ²	5	1,5+1,5 mm	9 mm
125	750 kg/cm ²	6	1,5+1,5 mm	10mm
160	800 kg/cm ²	5	1,5+1,5 mm	10mm
160	960 kg/cm ²	6	1,5+1,5 mm	11 mm
200	1.000 kg/cm ²	5	1,5+1,5 mm	11 mm
200	1.200 kg/cm ²	6	1,5+1,5 mm	12 mm

In elevators; Belt, Bucket and Bolts are important spare parts . In production lines; Elevators has different duties. During the selection of belts, working environment, product to be carried, speed etc. factors must be taken into consideration.

In order to provide strength, the Ep Cord Fabrics quality must be selected correctly and whether it provides the necessary strength or not. And also working temperature, oil resist, open or closed edges, etc. points are the very important.

As PlastAgri, we suggest the right Belts for elevator and provide desired length from 100mm width to 1000mm in lengths.

'Force is With You...'

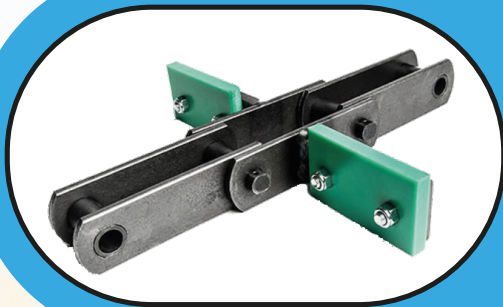
CONVEYOR CHAINS

Chains for Chain Conveyors

1: Link Model Chains

PlastAgri produces Scraper Conveyor Chains for Feed & Flour Mills and Grain Silos. Scraper Conveyor Chains are working at challenging conditions where there is high vibration and impact. Due to that reason The structure of Chains must be strong and must work smoothly without getting damage. Our aim is to produce always longer life of chains in accordance of working conditions.

- Welded or Fold Eared
- Fixed Bush or Movable Bush
- Protective Moving Rings
- Extra Induction Back Support
- Production According to Request
- Stainless Steel or Manufacturing Steel
- Heat Treated
- PE1000 & Polyamide Scrapers

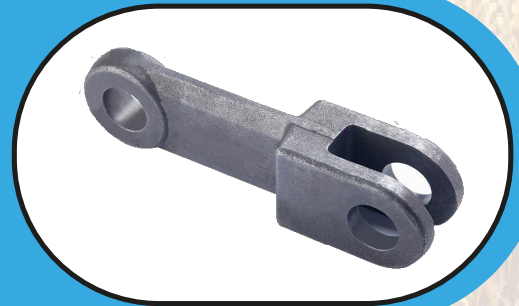
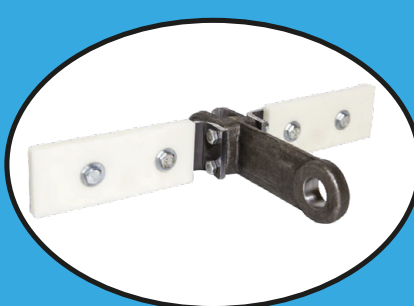
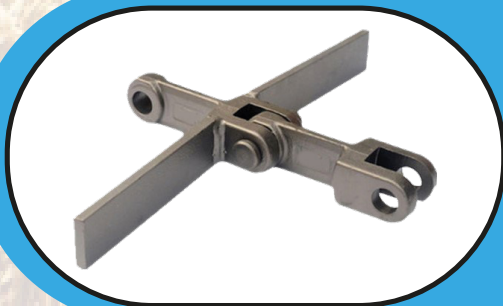


2 : Steel Forged Chains

PlastAgri produces Steel Forging conveyor chains and it is preferred as the model with the highest strength, especially designed for difficult conditions.

These chains are the model with the highest strength because they have a single piece body with fully filled inside. Manufacturing is possible based on samples or technical drawings in the desired ear dimensions.

- Welded or Fold Eared
- With Plastic Scrapers
- Back Supported
- Different Attachhng Types



'Force is With You...'

BELT FASTANERS

BOLTS

FANGED & PRONG

M8x30
M8x40
M10x30
M10x40
M10x50



PlastAgri bolts are used for fastening the Elevator Buckets on the Rubber Belt.

The bolts that we produce are in 2 types Fanged & Prong . These bolts are designed to prevent wear of bucket holes due to vibration. We have aimed to minimize belt & bucket wears thanks to the support of fibered nuts.

During the selection of fastening components we suggest the best fitted product for elevators.

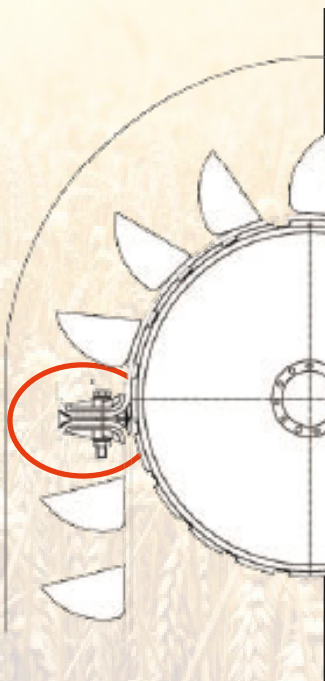
Features

- . 8,8 Steel Quality
- . Strong Fastenning
- . Anti Flicker
- . 2 Options
- . Standard Spiked

BELTS FASTENER

PlastAgri Belt fastener is the most accurate and robust method.

In this way, it is possible to prevent quick belt wears & breakages. Also, there will not be spending more length of belt ,decreases in capacity, leaving only 1 bucket of space. It is possible to extend the life time of the elevator drum.

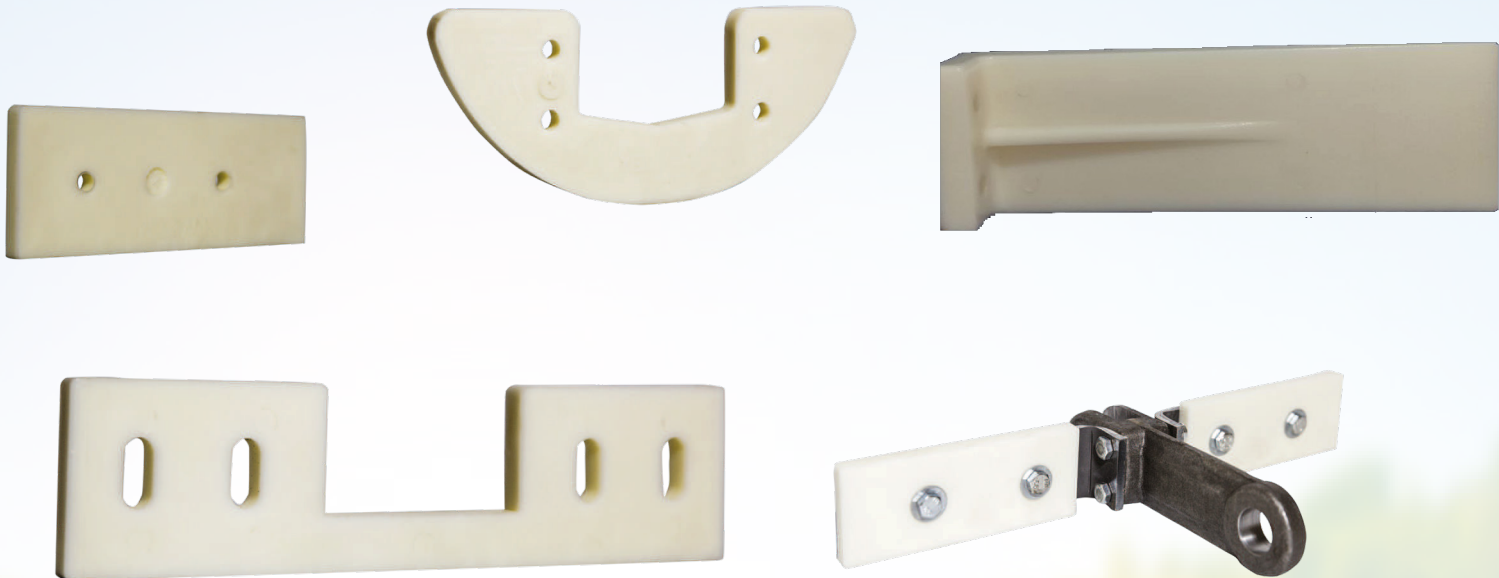


Features

- . No Need to Use Extra Length of Belt
- . Strongest Fastening
- . Corrosion Resistant
- . Non-Sparking
- . Extends Belt Life Time
- . Prevents Wears on drums
- . Easy Installation

'Force is With You...'

PLASTIC SCRAPERS



PlastAgri manufactures Plastic Scrapers for Chain Conveyors. These scrapers are made of injection molding or PE1000 plates.

Product structure of common models are designed and manufactured according to duty of chain conveyor. Polyamid and HDPE is general types of raw materials.

PlastAgri considers all possibilities and shares the technical data of the products before production. All types of Plastic Scappers are available.

'Force is With You...'

SIGHT GLASS



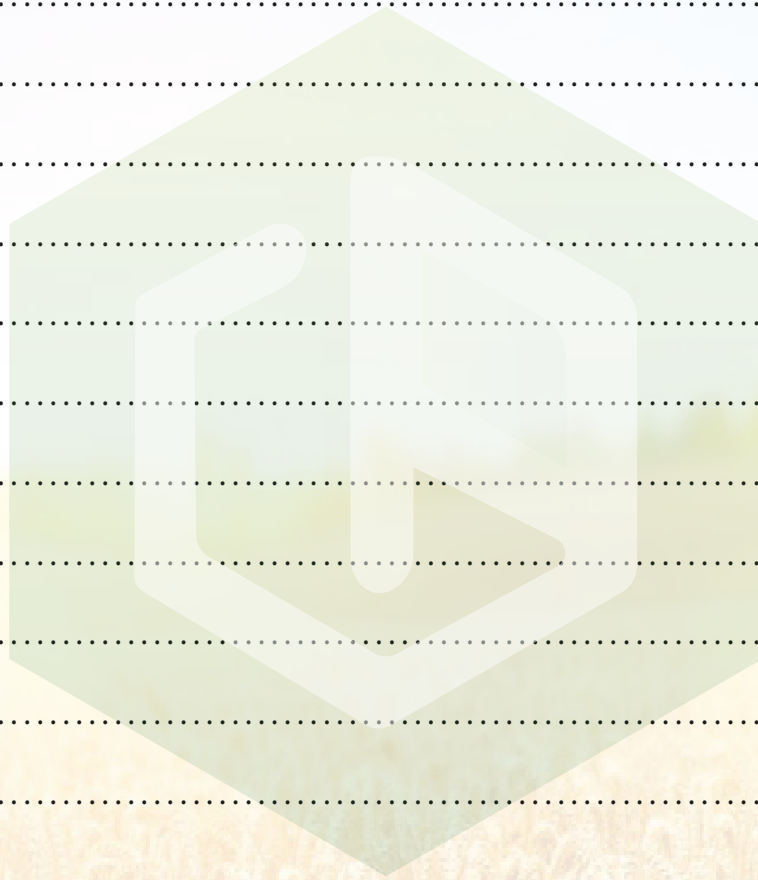
PlastAgri Manufactures Sight Glasses for Milling Sector. Because it is the one of the most important requirements of the milling industry.

The sight glasses are available in following dimension table.

Dimension Table

Product Code	Ø	Length	Thickness
PA-GLS-63	63	300	4
PA-GLS-70	70	300	4
PA-GLS-76	76	300	4
PA-GLS-83	83	300	4
PA-GLS-89	89	300	4
PA-GLS-107	107	300	4
PA-GLS-114	114	300	4
PA-GLS-120	120	300	4
PA-GLS-127	127	300	4
PA-GLS-145	145	300	4

NOTES







PlastAgri
Your Sustainability Partner

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