

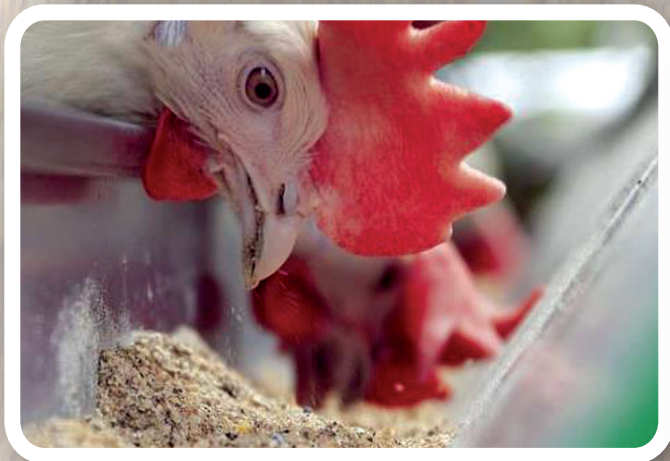


Food / Feed Meal Handling product

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Elevator Buckets

OUR BUCKETS' FEATURE

- High impact, abrasion resistance, no-corrosion, smooth surface, FDA Food proved.
- Less weight, prolong service life of buckets and belts, reduce elevator consumption.
- Good toughness, lower rate of breakage for material, no-sparking, avoid dust explosion.
- Various materials and styles of plastic elevator buckets, more convenient to choose the proper bucket
- Higher performance than traditional cast iron bucket.

MATERIAL: HDPE/NYLON/PU

HDPE: Tough and flexible, suitable for handling grains, foodstuffs and other products with no sharp edges and material that has bulk density of less than 1g/cm^3 .

NYLON: High impact and abrasion resistance, better heat resistance and are well suited for handling hot abrasive and sticky products.

PU: Extremely abrasion resistance tough and flexible, and are suitable for handling sharp, cutting and stick products.

COMMENTS:

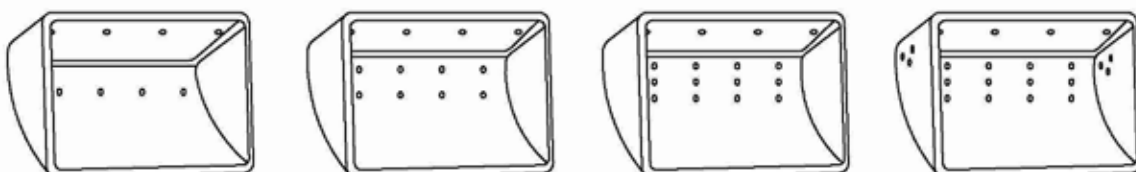
- When elevate some materials which are damp and agglomerate, one steel buckets should be added every 5-10 plastic buckets.
- Avoid exposed by direct sunlight for a long time.
- Nylon bucket easily broken and become brittle after losing internal moisture under drying conditions.
- Actual dimensions of buckets will vary slightly depending on specified raw material. The dimensions shown above are for HDPE buckets. Size A, B and C for Nylon and Urethane buckets will be about dimensionally 2% larger than HDPE buckets.

ELEVATOR BUCKET VENTING

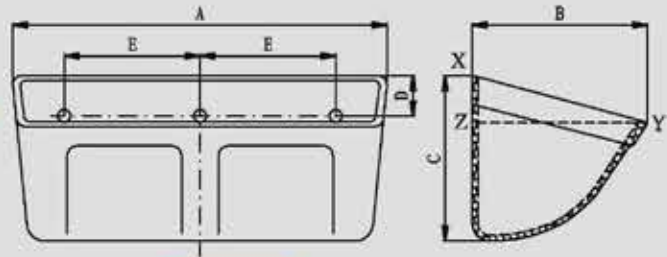
The advantage: A venting bucket can improve the efficiency of some bucket elevators when handling certain products. On dense materials such as flour, meals and mash feeds, the vents allow air to escape through the cup as it fills, which permits the cup to fill more completely. During discharge, air can return through the cups as it empties, thus preventing a vacuum that could hold some of the products in the cup and cause feedback. On extremely light material such as alfalfa meal, screenings and bran, a vented bucket not only minimizes blowing of the product during loading and discharge, but also reduces air turbulence in the bucket as the bucket travels empty down the return side of the elevator. A reduction in air currents minimizes the vacuum which can draw a light product through the down leg and back to boot.

The forms of venting: Custom venting is available upon request

Venting options:



D TYPE



Usage:

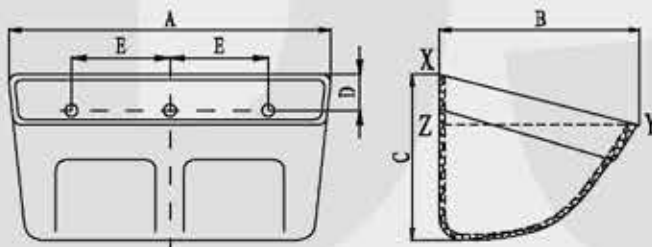
D type elevator bucket is designed with thicker walls and a reinforced front lip to increase bucket life and reduce breakage. The most common applications include grain, fertilizer, seeds, salt and chemicals, etc

- Thicker walls, heavy front lip for digging
- More capacity, Cleaner discharge
- High impact and abrasion resistant
- Non-corrosive, non-sparking

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Capacity (Z-Y)+10% (L)	Capacity (Z-Y) (L)
D4×3	107	81	75	22	50	2	7	0.28	0.25
D5×4	133	113	103	32	60	2	7	0.66	0.60
D6×4	159	113	103	32	90	2	7	0.80	0.73
D7×4	184	113	103	32	120	2	9	0.93	0.85
D6×5	168	143	130	40	90	2	9	1.21	1.10
D7×5	192	143	130	40	120	2	9	1.45	1.31
D8×5	211	143	130	40	120	2	9	1.86	1.69
D9×5	237	145	130	40	85	3	9	1.94	1.76
D11×5	289	145	130	45	100	3	9	2.55	2.31
D8×6	211	168	154	45	120	2	9	2.45	2.22
D9×6	237	168	154	45	85	3	9	2.72	2.47
D10×6	266	168	154	45	90	3	9	3.08	2.80
D11×6	287	168	154	45	100	3	9	3.35	3.04
D12×6	314	168	154	45	85	4	9	3.62	3.29
D13×6	338	168	154	45	85	4	9	3.99	3.62

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Capacity (Z-Y)+10% (L)	Capacity (Z-Y) (L)
D14×6	368	168	154	50	95	4	9	4.39	3.99
D10X7	269	197	180	45	90	3	9	4.39	3.95
D11×7	287	197	180	45	100	4	9	4.87	4.42
D12×7	318	197	180	45	85	4	9	5.28	4.80
D13×7	343	197	180	45	90	4	9	6.22	5.65
D14×7	370	197	180	50	95	4	9	6.44	5.85
D15×7	392	197	180	50	100	4	9	6.85	6.22
D16×7	427	197	180	48	85	5	9	7.34	6.67
D11×8	280	220	216	55	65	4	9	6.46	5.87
D12X8	318	222	206	55	85	4	9	7.06	6.41
D14X8	368	222	206	55	95	5	9	8.40	7.63
D15×8	392	222	206	55	80	5	9	9.23	8.39
D16X8	419	222	206	55	85	5	9	9.79	8.90
D18×8	473	222	206	55	95	5	9	11.00	10.00
D20X8	530	225	210	55	90	6	9	12.10	11.00
D22X8	582	230	210	55	100	6	9	13.42	12.20
D16X9	430	260	260	65	68	6	11	12.10	11.00

DS TYPE (Deep Bottom Bucket)

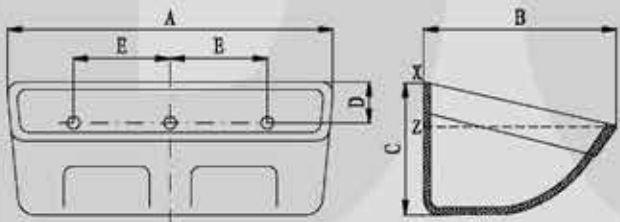


Usage:

- Suitable for Gravity discharge and mixed discharge.
- Recommend minimum bucket spacing: width of the bucket projection "B"+25mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed $\leq 2.5\text{m/s}$, which can be changed according to the different pulley diameter and discharge angle
- Recommend using "(Z-Y)" +10% as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center	Number of Holes	Hole Diameter (mm)	Capacity (X-Y) (L)	Capacity (Z-Y)+10% (L)	Capacity (Z-Y) (L)
DS5121	519	225	210	55	90	6	11	13.11	11.66	10.60
DS4822	480	223	210	68	76	6	11	13	9.24	8.40
DS4621	460	220	200	55	95	5	9	11.7	9.57	8.70
DS4121	418	222	200	55	85	5	9	10.4	8.77	7.97
DS4118	419	190	180	50	85	5	9	8.4	5.64	5.13
DS3621	365	220	200	55	95	4	9	8.5	7.10	6.45
DS3518	358	190	180	50	95	4	9	6.8	5.09	4.63
DS3121	315	220	200	55	85	4	9	7.4	6.12	5.56
DS3118	315	190	175	45	85	4	9	5.1	3.52	3.20
DS3116	313	168	154	45	85	4	9	4.4	3.09	2.81
DS3114	312	147	146	45	80	4	9	3.26	2.30	2.09
DS2919	295	197	178	50	75	4	9	5.8	4.72	4.29
DS2916	297	170	155	45	110	3	9	4	2.77	2.52
DS2823	289	230	190	55	100	3	9	6.7	4.85	4.41
DS2816	282	168	154	45	100	3	9	3.7	3.01	2.74
DS2814	280	140	139	40	100	3	9	2.7	1.87	1.70
DS2812	280	125	130	40	100	3	9	2.4	1.78	1.62
DS2616	266	166	154	45	90	3	9	3.3	2.30	2.09
DS2511	250	114	115	25	125	2	7	1.5	0.99	0.90
DS2316	238	166	154	45	85	3	9	3	1.85	1.68
DS2314	235	140	130	40	85	3	9	2.27	1.60	1.45
DS2312	235	125	125	40	120	2	9	1.9	1.32	1.20
DS2014	208	140	120	40	120	2	9	1.8	1.21	1.10
DS2010	202	102	98	20	120	2	7	0.91	0.66	0.60
DS1814	188	140	130	40	120	2	9	1.7	1.49	1.35
DS1812	188	125	115	40	120	2	9	1.3	0.73	0.66
DS1613	164	139	124	40	90	2	9	1.4	1.12	1.02
DS1612	165	120	110	40	90	2	7	1.05	0.68	0.62
DS1511	150	110	100	35	80	2	7	0.9	0.62	0.56
DS1508	152	84	78	18	76	2	7	0.47	0.35	0.32
DS1411	145	110	96	35	60	2	7	0.75	0.59	0.54
DS1311	134	115	94	35	60	2	7	0.75	0.56	0.51
DS1309	130	90	80	25	60	2	7	0.5	0.25	0.23
DS1307	130	75	80	25	60	2	7	0.4	0.24	0.22
DS1109	116	92	85	25	60	2	7	0.42	0.30	0.27
DS1009	100	90	93	24	50	2	7	0.4	0.29	0.26
DS0807	90	75	64	20	50	2	7	0.25	0.15	0.14

DQ TYPE (Shallow Bottom Bucket)



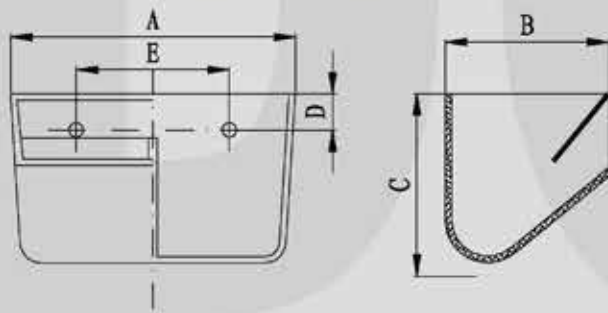
Usage:

- Suitable for high-speed centrifugal discharge and light bulk material lifting.
- Recommend minimum bucket spacing: width of the bucket projection "B"+25mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed $\leq 3.5\text{m/s}$, which can be changed according to the different pulley diameter and discharge angle.
- Recommend using "(Z-Y)" +5% as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Capacity (X-Y) (L)	Capacity (Z-Y)+10% (L)	Capacity (Z-Y) (L)
DQ5626	569	260	170	50	115	5	11	15.00	12.35	11.75
DQ5121	519	225	168	50	100	5	11	10.76	9.46	8.60
DQ4726	470	260	170	50	95	5	9	11.50	9.90	9.40
DQ4723	475	230	164	45	95	5	9	10.00	8.50	8.10
DQ4423	447	230	165	45	90	5	9	9.20	7.67	7.30
DQ3917	393	170	130	40	100	4	9	5.00	3.42	3.25
DQ3823	382	230	165	45	100	4	9	8.00	6.30	6.00
DQ3325	339	259	170	50	85	4	9	8.50	6.90	6.55
DQ3321	337	215	140	40	85	4	9	5.50	3.90	3.70
DQ3216	330	165	111	35	80	4	9	3.23	2.36	2.25
DQ2824	289	244	166	45	100	3	9	6.40	5.90	5.60
DQ2817	290	178	120	40	90	3	9	3.35	2.63	2.50
DQ2816	290	165	108	35	90	3	9	2.65	2.31	2.20
DQ2815	285	155	91	30	90	3	9	2.20	1.86	1.77
DQ2814	285	143	96	30	90	3	9	2.08	1.59	1.51
DQ2616	260	167	144	50	80	3	9	2.20	1.32	1.25
DQ2417	248	178	120	40	120	2	9	2.60	2.30	2.18

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Capacity (X-Y) (L)	Capacity (Z-Y)+10% (L)	Capacity (Z-Y) (L)
DQ2316	238	160	102	35	120	2	9	1.90	1.38	1.31
DQ2315	235	155	91	30	120	2	9	1.78	1.49	1.42
DQ2314	235	143	96	30	120	2	9	1.68	1.28	1.22
DQ2312	234	125	95	35	120	2	9	1.50	1.16	1.10
DQ1914	190	145	115	35	100	2	9	1.60	1.26	1.20
DQ1814	186	140	87	30	100	2	9	1.13	0.82	0.78
DQ1613	165	135	82	25	90	2	9	0.96	0.76	0.72
DQ1312	138	120	91	30	60	2	7	0.80	0.64	0.61
DQ1311	136	114	72	25	60	2	7	0.50	0.32	0.30
DQ1009	106	93	66	25	50	2	7	0.40	0.22	0.21

DG TYPE (Split Bucket)

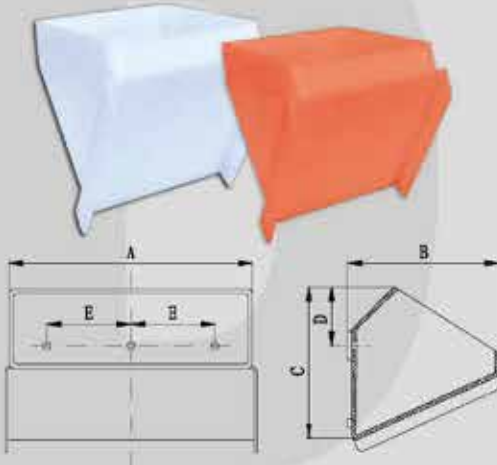


Usage:

- Suitable for high-speed centrifugal discharge.
- Recommend minimum bucket spacing: width of the bucket projection "B"+50mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed $\leq 3.5\text{m/s}$, which can be changed according to the different pulley diameter and discharge angle.
- Recommend a Capacity (L) as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Capacity (L)
DG1812	185	120	120	40	120	2	9	2.00
DG1309	135	96	92	30	80	2	7	0.75
DG1307	134	77	86	25	72	2	7	0.56
DG1107	110	77	86	25	72	2	7	0.45

DM TYPE (Rice Milling Bucket)

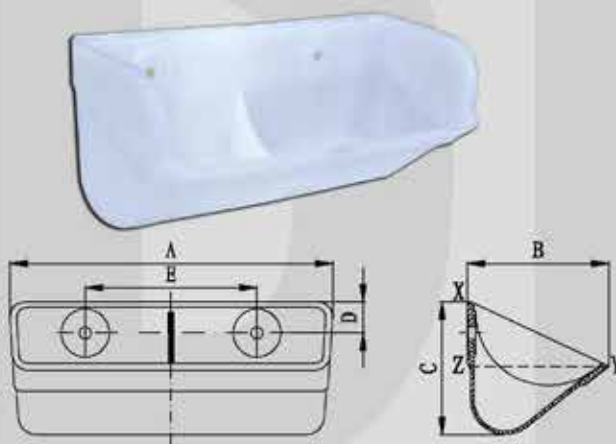


Usage:

- Suitable for low-speed gravitational discharge.
- Recommend minimum bucket spacing: the height of the bucket back wall "C"+2mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed 0.5~0.8m/s, which can be changed according to the different pulley diameter and discharge angle.
- Recommend using "Capacity (L)" as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter D (mm)	Capacity (L)
DM2921	294	210	200	55	113	3	9	6.20
DM2918	292	178	194	70	100	3	9	4.78
DM2313	230	138	136	44	125	2	7	2.21
DM2118	216	186	208	60	139	2	9	4.05
DM2017	207	179	194	60	139	2	9	3.60
DM1715	175	156	176	52	113	2	9	2.40
DM1413	143	143	172	52	93	2	9	1.60
DM1310	138	110	128	37	80	2	7	0.88
DM1010	105	110	129	48	50	2	9	0.70

DH TYPE (Drying Bucket)



Usage:

- Suitable for high-speed centrifugal discharge.
- Recommend minimum bucket spacing: width of the bucket projection "B"+50mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed $\leq 3.5\text{m/s}$, which can be changed according to the different pulley diameter and discharge angle.
- Recommend using "(Z-Y)" +10% as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Distance Down D(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Capacity (X-Y) (L)	Capacity (Z-Y)+10% (L)	Capacity (Z-Y) (L)
DH2512	255	123	116	30	141	2	9	1.40	1.10	1.00
DH1910	197	100	87	17	65	2	7	0.74	0.34	0.31
DH1808	189	87	79	20	100	2	7	0.53	0.37	0.34
DH1409	147	94	87	20	96.5	2	7	0.42	0.21	0.19
DH1406	143	64	71	19	76	2	7	0.22	0.18	0.16
DH1106	116	62	62	13	63	2	7	0.17	0.11	0.10

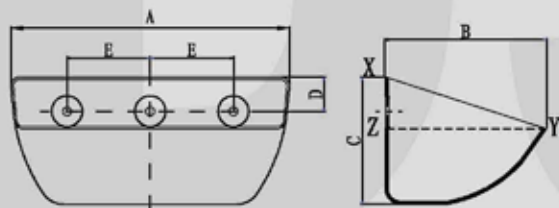
Whole stamping steel bucket

MATERIAL: carbon steel, stainless steel.

Features:

- Whole stamping steel bucket adopts deep drawing processing lead to higher overall strength.
- High temperature performance is outstanding, especially suitable for high temperature environment.
- High surface hardness, suitable for conveying the very sharp material and large bulk material.
- Can mixed use with plastic bucket, attention to balance problem

DS TYPE (Deep Bottom Steel Bucket)



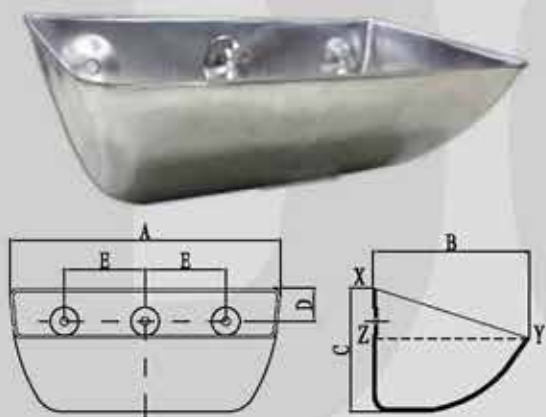
Usage:

- Suitable for high-speed centrifugal discharge.
- Recommend minimum bucket spacing: width of the bucket projection "B"+25mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed $\leq 2.5\text{m/s}$, which can be changed according to the different pulley diameter and discharge angle.
- Recommend using "(Z-Y)" +10% as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Thickness (mm)	Capacity (X-Y) (L)
DS0807	90	78	55	50	2	7	1.5	0.21
DS1009	100	90	65	50	2	7	1.5	0.31
DS1109	110	90	68	60	2	7	1.5	0.35
DS1309	130	90	70	60	2	7	1.5	0.45
DS1311	139	112	85	60	2	7	1.5	0.65
DS1312	138	125	85	60	2	7	1.5	0.73
DS1409	140	90	70	60	2	7	1.5	0.55
DS1411	140	112	85	60	2	7	1.5	0.69
DS1511	155	113	90	80	2	7	1.5	0.94
DS1612	166	126	95	90	2	7	1.5	1.18
DS1613	166	135	95	90	2	7	1.5	1.21

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Thickness (mm)	Capacity (X-Y) (L)
DS1813	188	130	95	90	2	9	1.5	1.33
DS1814	183	142	115	90	2	9	1.5	1.49
DS1814A	183	146	110	90	2	9	2	1.35
DS1914	190	142	110	90	2	9	1.5	1.62
DS2014	203	142	115	90	2	9	1.5	1.7
DS2313	238	130	105	120	2	9	1.5	1.76
DS2314	233	142	115	120	2	9	1.5	1.98
DS2314A	233	146	115	120	2	9	2	1.95
DS2316	236	162	125	120	2	9	1.5	2.18
DS2316A	238	166	130	120	2	9	2	2.44
DS2417	240	170	125	120	2	9	2	2.56
DS2614	265	140	110	150	2	9	2	2.61
DS2616	260	162	125	150	2	9	2	2.81
DS2813	288	130	112	100	3	9	1.5	2.44
DS2814	283	142	115	100	3	9	1.5	2.44
DS2814A	283	142	115	100	3	9	2	2.29
DS2816	283	168	130	100	3	9	2	3.17
DS2817	288	178	125	100	3	9	2	3.91
DS2818	290	183	142	80	3	9	2	3.87
DS2823	285	230	168	100	3	9	2	5.47
DS2916	290	168	130	100	3	9	2	3.28
DS3016	308	165	135	100	3	9	2	3.21
DS3021	310	215	165	100	3	9	2	5.7
DS3114	306	142	110	100	3	9	2	2.59
DS3118	315	190	155	75	4	9	2	4.18
DS3121	315	220	160	75	4	9	2	5.8
DS3216	320	160	135	82	4	9	2	3.65
DS3321	340	212	155	82	4	9	2	4.54
DS3325	340	255	150	82	4	9	2	6.84
DS3518	358	180	145	90	4	9	2	4.16
DS3621	365	220	160	90	4	9	2	7.14
DS3823	380	230	160	90	4	9	2	6.5
DS4118	415	190	145	95	4	11	2	6.45
DS4121	415	220	172	95	4	11	2	7.86
DS4216	420	160	135	90	4	11	2	6.72
DS4423	445	233	160	90	5	9	2.5	7.52
DS4621	460	22	160	85	5	11	2.5	8.84
DS4723	475	233	160	95	5	11	2.5	7.82
DS4626	460	260	205	95	5	11	2.5	7.87
DS5121	518	220	160	90	5	11	2.5	10.18
DS5626	560	260	170	105	5	11	2.5	11.9

DQ TYPE (Shallow Bottom Steel Bucket)



Usage:

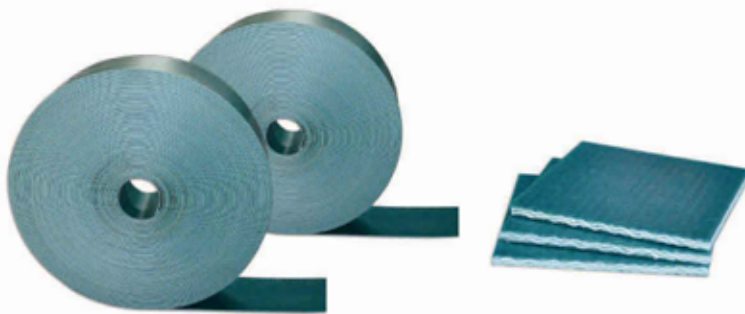
- Suitable for high-speed centrifugal discharge and light bulk material lifting.
- Recommend minimum bucket spacing: width of the bucket projection "B"+25mm, which can be appropriately reduced according to elevator capacity requirement.
- Recommend elevator line speed $\leq 3.5\text{m/s}$, which can be changed according to the different pulley diameter and discharge angle.
- Recommend using "(Z-Y)" +5% as usable capacity for engineering design.

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Thickness (mm)	Capacity (X-Y) (L)
DQ0807	90	75	48	50	2	7	1.5	0.2
DQ1009	100	90	58	50	2	7	1.5	0.29
DQ1109	110	90	60	60	2	7	1.5	0.31
DQ1309	130	90	58	60	2	7	1.5	0.4
DQ1311	139	112	60	60	2	7	1.5	0.62
DQ1312	138	125	60	60	2	7	1.5	0.68
DQ1409	140	90	58	60	2	7	1.5	0.48
DQ1411	140	112	60	60	2	7	1.5	0.63
DQ1511	155	113	62	80	2	7	1.5	0.69
DQ1612	166	125	65	90	2	7	1.5	0.88
DQ1613	166	130	68	90	2	7	1.5	1.03
DQ1813	188	130	80	90	2	9	1.5	1.09
DQ1814	183	140	98	90	2	9	1.5	1.23
DQ1814A	183	142	95	90	2	9	2	1.2
DQ1914	190	142	88	90	2	9	1.5	1.36
DQ2014	203	142	90	90	2	9	1.5	1.64
DQ2313	239	130	75	120	2	9	1.5	1.52
DQ2314	233	142	95	120	2	9	1.5	1.75
DQ2314A	233	143	95	120	2	9	2	1.72
DQ2316	236	162	100	120	2	9	1.5	1.52

Model	Length A(mm)	Proj. B(mm)	Depth C(mm)	Center to Center E(mm)	Number of Holes	Hole Diameter (mm)	Thickness (mm)	Capacity (X-Y) (L)
DQ2316A	238	162	100	120	2	9	2	2.2
DQ2417	240	170	109	120	2	9	2	2.32
DQ2614	265	140	88	120	2	9	2	2.32
DQ2616	260	162	90	120	2	9	2	1.63
DQ2813	288	130	85	100	3	9	1.5	1.88
DQ2814	283	142	85	100	3	9	1.5	1.66
DQ2814A	282	146	95	100	3	9	2	1.9
DQ2816	286	168	115	100	3	9	2	2.77
DQ2817	288	178	100	100	3	9	2	3.18
DQ2818	290	182	115	80	3	9	2	3.42
DQ2824	285	240	148	100	3	9	2	5.09
DQ2916	290	168	115	100	3	9	2	2.86
DQ3016	308	162	100	100	3	9	2	2.94
DQ3018	305	183	125	100	3	9	2	4.26
DQ3021	310	215	142	100	3	9	2	5.31
DQ3114	305	143	82	100	3	9	2	1.89
DQ3118	315	190	110	75	4	9	2	3.53
DQ3121	315	220	130	75	4	9	2	5.15
DQ3216	320	160	100	80	4	9	2	3.28
DQ3321	336	212	135	80	4	9	2	4.15
DQ3325	340	255	130	80	4	9	2	9.41
DQ3518	358	180	110	90	4	9	2	3.4
DQ3621	365	220	125	90	4	9	2	6.61
DQ3823	380	230	125	90	4	9	2	5.93
DQ4118	415	190	115	95	4	11	2	5.73
DQ4121	415	220	125	95	4	11	2	7.07
DQ4216	420	160	110	90	4	11	2	6.08
DQ4423	445	233	148	90	5	9	2.5	7.02
DQ4621	460	220	125	85	5	11	2.5	8.38
DQ4723	475	233	148	95	5	11	2.5	7.49
DQ4626	460	260	195	95	5	11	2.5	7.58
DQ5121	518	220	125	90	5	11	2.5	9.6
DQ5626	560	260	153	105	5	11	2.5	11.34

Elevator Belt

PVC Elevator Belt



The carcass of PVC belt is solid woven type, which interweaved by polyester and cotton. Then put the carcass into impregnated PVC paste resin to plastify under high temperature, also the carcass pressed PVC cover both sides. (One side is smooth cover; the other side that touches with pulley is friction cover). It is fire resistance and anti-static solid woven elevator belt.

Features:

- PVC elevator belt has solid woven carcass, compared to the rubber elevator belt, it is uniformly stressed to ensure the strong elevating capability. No delaminating occurs under normal operating conditions. Flexibility allows for smoother running along the elevator pulley, keep a good running trail and not easy to off track.
- Tight woven carcass after dipping in PVC paste resin have the excellent ability of elevating, at the same time, have higher tear resistant performance , can also prevent the bolts pull-through easily, make reliable and secure fixing of the bucket to the belt.
- PVC belt has better characteristics of resistance to oil and chemical solvent, wear resistance and anti-corrosion.
- Characteristics of light weight, strong structure, low driving power, fire resistance and anti-static make this belt ideal for using in grain handling applications.

Specifications and Parameters:

Model	Tensile Strength (N/mm)	Surface cover	Color	Thickness (mm)	Nominal weight (kg/m ²)	Recommended Minimum Diameter of Pulley (Φ) mm
PVC360	360	one surface is matt, another surface is friction	green	3.3~3.5	4.2	100
PVC480	480			4.0~4.2	5.0	100
PVC680	680			5.3~5.5	6.6	150
PVC880	880			6.8~7.1	8.0	250
PVC1080	1080			8.5~9	10.1	350

Performance of PVC Cover:

Item	Index
Tensile strength Mpa≥	16
Elongation at break % ≥	400
Adhesion strength for cover against carcass N/mm ≥	6.5
Abrasion loss mm ³ ≤	80
Electric conductivity MΩ ≤	300
Friction factor (with steel)	0.68
Ageing resistance	belt after 4 month outdoor storage not allowed crack

Physical and mechanical properties:

Function \ Model		PVC-360	PVC-480	PVC-680	PVC-880	PVC-1080
Tensile strength (N/mm)	warp direction	360	480	680	880	1080
	weft direction	200	220	250	300	320
Elongation at break (%)	warp direction	≥16				
	weft direction	≥20				
10% Elongation at Rated Load		≤0.60			≤0.70	



Test Report:

Product name: PVC belt/reformed rubber belt				Model: PVC880/800YP
Test judgement based on : 《rubber and plastic bucket elevator HG/T2577-2006》				
Test result				
	Item	Value		Test standard
		PVC880	800YP	
Whole thickness characteristic	Tensile Strength in Warp N/mm	890	805	GB/T3690-94
	Elongation at Rated Load %	0.67	1.6	GB/T3690-95
	Elongation in Wrap %	24	24	GB/T3690-96
	adhesive strength N/mm	6.5	4.5	GB/T532-1997
PVC Cover characteristic	Bolt thought-out resistance N	11250	8500	《Test requirements of thoughtout resistance 》
	Tensile strength Mpa	20	18	GB/T532-1998
	Elongation at Break %	450	420	GB/T532-1999
	Abrasion Loss mm ³	80	150	GB/T1689-1998
	Shore hardness Sha	70	60-65（rubber）	GB/T531-92
	Friction factor（with steel）	0.68	0.75	ISO21182:2005
	Friction factor（with rubber）	0.86	Adsorption>1	ISO21182:2006
	Oil resistant (volume expansion rate)%	3	20	《Test method of volume expansion rate》
	Acid resistant (volume expansion rate)%	0.8	5.2	《Test method of volume expansion rate》
	Low temperature resistant	No delamination and surface tortoise cracks		GB/T7758-2002
Conclusion	Above all, for grain and feed processing, comprehensive performance of PVC belt is more better than the rubber belt, large domestic grain and feed processing enterprises are all used imported equipment of the PVC belt.			

Reformed Rubber Elevator Belt



Features:

- The carcass consists of EP in warp and NN in weft. The belts are laminar construction. Add a wear-resisting canvas to the contact surface of elevator belts. It is high performance belt suitable for grain processing industry.

Model	Through thickness longitudinal strength at break (N/mm)	Elongation at Rated Load(≤%)	Adhesive strength (≥N/mm)		Rubber wear (≤cm ³)	Thickness (mm)	Recommended Minimum Diameter of Pulley(Φ)	
			Cloth	cover against carcass			Bare drum	Rubber drum
600YP	600	1.6	4.5	3.2	150	5.0	500	360
800YP	800					6.5	800	500
1000YP	1000					8.0	1000	800

Elevator Bolt

Ordinary Elevator Bolt

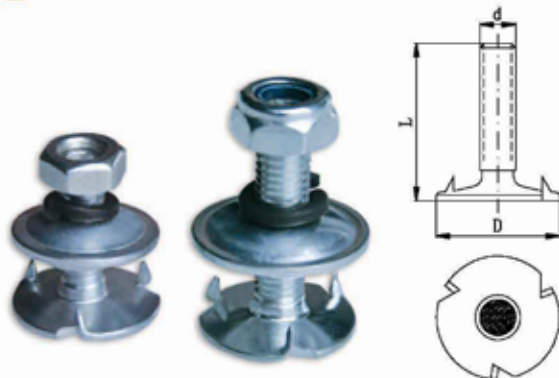


Features:

- Tolerance quality is 6g, Mechanical properties grade is greater than 4.8. Surface treatment is galvanized.
- Applied to the bucket with light capacity and have low line speed during working, it's an economically bolt.
- 3 raised lugs on the bolt head to prevent rotation when tightening

Model	d	Diameter (mm) D	Length (mm) L	Package (number per carton)
M6 X 16	M6	18	16	3300
M6 X 22	M6	18	22	3000
M6 X 30	M6	18	30	2400
M8 X 25	M8	22	25	1600
M8 X 30	M8	22	30	1400
M8 X 38	M8	22	38	1200
M10 X 35	M10	26	35	800
M10 X 40	M10	26	40	800

Fang Bolt



Features:

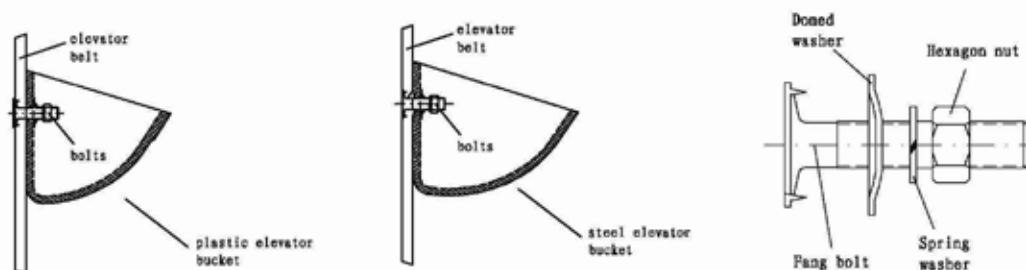
- Tolerance quality is 6g, Mechanical properties grade is greater than 6.8. Surface treatment is galvanized.
- Applied to the bucket with heavy capacity and high line speed, the bolts can bear high impact during working.
- Three fangs structure can effectively solve the old structure problem of bolts (problem caused by separation between bolt and claw, two claws).

Model	d	Diameter (mm) D	Length(mm) L	Package (number per carton)
M6 X 25	M6	25	25	2400
M6 X 30	M6	25	30	2400
M6 X 38	M6	25	38	1400
M8 X 30	M8	27	30	1200
M8 X 35	M8	27	35	1200
M8 X 42	M8	27	42	1000
M10 X 35	M10	30	35	600
M10 X 45	M10	30	45	600
M10 X 50	M10	30	50	600

Elevator Bolts Accessories

Hexagon Nut 	Strength: level 5 Thread tolerance: 6H Surface treatment: Passivation of zinc plating	Nyloc Nut 	Strength: level 5 Thread tolerance: 6H Surface treatment: Passivation of zinc plating	Square Nut 	Strength: level 5 Thread tolerance: 7H Surface treatment: Passivation of zinc plating
Spring Washer 	Materil: 65Mn Surface treatment: oxidation treatment	Large Flat Washer 	Hardness level: 100HV Surface treatment: Galvanized	Domed Washer 	Hardness level: 100HV Surface treatment: Galvanized

Installation Diagram



Belt Clamp Fastener

Proper belt clamp will directly influence the running reliability, safety and life span of the elevator belt. It's the safest, the most economical, and the most widely design up to now. Our belt fasteners are widely used by many conveyor equipment manufactures and have unanimous recognition and praise of experts.



Features of Type S1: Whole stamping with accurate dimension, it is easy to interchange and have high precision of combination.

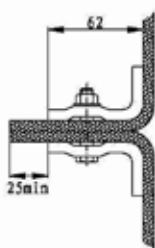
Features of Type S4 and S5:

- It's made by three special mechanical parts. Precision casting with accurate dimension. Materials include cast steel (Galvanized) and stainless steel, they both have higher clamping force .
- The fastener applies to different width of belt with good performance of combination.
- Surface galvanized, good performance of antirust.
- Equipped with the locknut which prevent the loose in the operation.

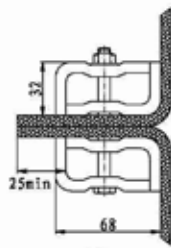
Technical Specification:

Model	S1	S2	S4	S5
Allowed tensile strength KN/m	≤800	≤1000	≤1200	≤1600

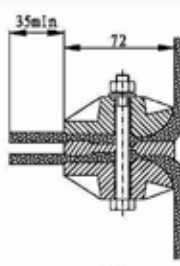
Elevator Bolts Accessories



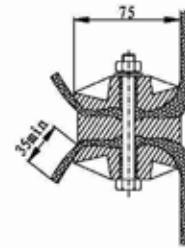
S1



S2

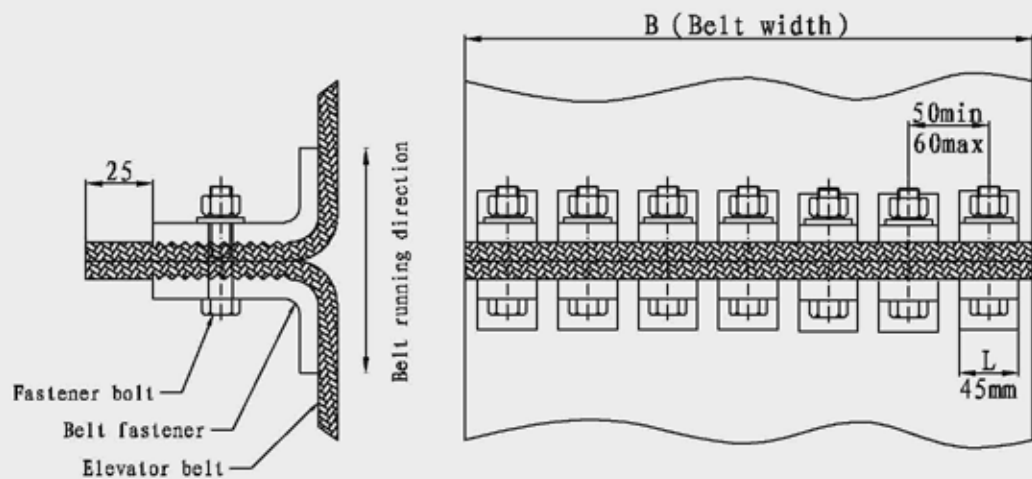


S4

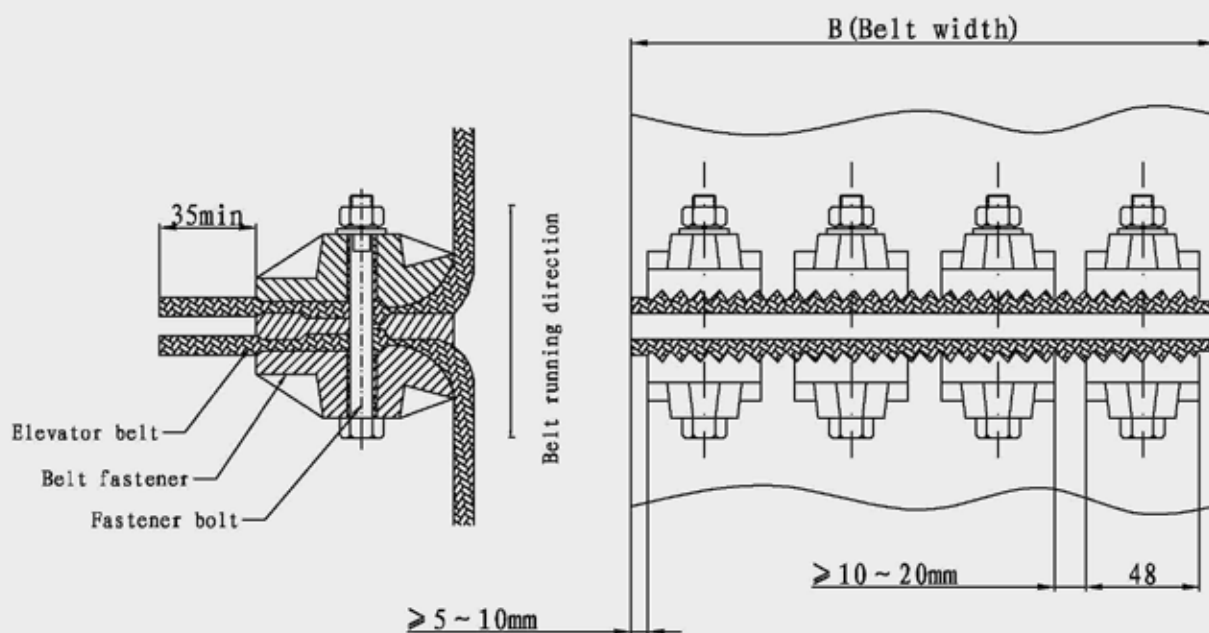


S5

Elevator Bolts Accessories



Belt fastener S1/S2 installation diagram



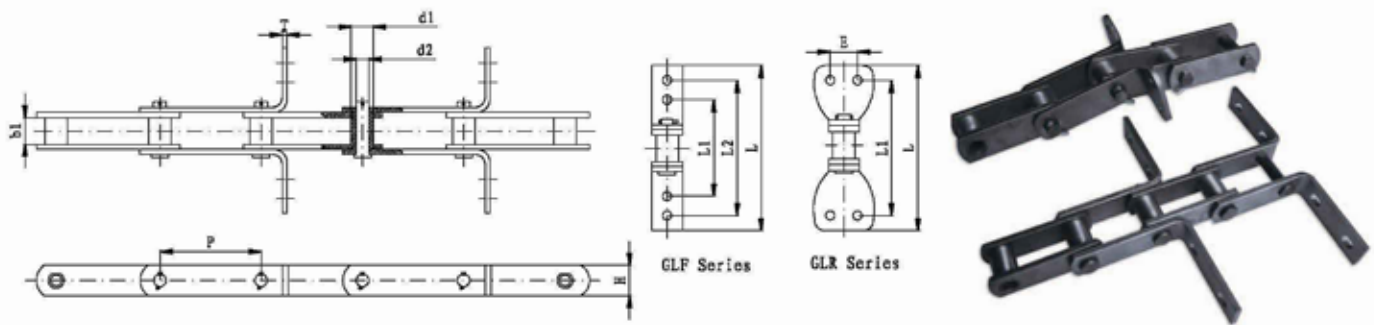
Belt fastener S4/S5 installation diagram

The adapter of elevator belts are all used belt clamp fasteners, it also according to the different tensile strength and width to choose the proper belt fasteners.

Conveyor Chains and Flights

Conveyor Chains

Chains adopt high quality medium-carbon alloy steel, chain plate material is 40Mn, pin and roller material is 40Cr. High quality material and good heat treatment guarantee excellent anti-shearing force and tensile strength during working.



Type: Bush Roller Chain.

Model: GLF and GL — For TGSS flat/en masse scraper conveyor, install flat scrapper.

GLR — For TGSU arc scraper conveyor, install U type scrapper.

Model	Pitch P	Inner width b1	Roller diameter d1	Pin diameter d2	Plate width H	Plate thickness T	Plate channels L	Hole pace L1	Hole space L2	Hole space E	Hole diameter	Breaking Load in KN(Min.)
GLR68(4)	68	26	22.23	9.5	23	4		79			2-Φ7	50
GLR68(5)	68	25.32	22.23	11.1	29	5		102		32	4-Φ9	90
GLR66.5(5-6)D	66.5	26.5	22.23	12.7	30	5-6	130	102		32	4-Φ9	130
GLR100(6)D	100	38.5	36	16	40	6	130	102		32	4-Φ9	220
GLF66.5(5-6)DX160	66.5	26.5	22.23	12.7	30	5-6	160	102			2-Φ9X14	130
GLF66.5(5-6)DX230	66.5	26.5	22.23	12.7	30	5-6	230	95	195		2-Φ9X14	130
GLF66.5(5-6)DX270	66.5	26.5	22.23	12.7	30	5-6	270	102	228		4-Φ9X14	130
GLF66.675(6)DX182	66.675	26.5	22.23	12.7	30	6	182	90	150		4-Φ9X14	130
GLF66.675(6)DX215	66.675	26.5	22.23	12.7	30	6	215	95	195		4-Φ9X14	130
GLF66.675(6)DX295	66.675	26.5	22.23	12.7	30	6	295	95	195		4-Φ9X14	130
GLF100(6)DX170	100	38.5	36	16	40	6	170	115			2-Φ9X14	220
GLF100(6)DX225	100	38.5	36	16	40	6	225	104	194		4-Φ9X14	220
GLF100(6)DX294	100	38.5	36	16	40	6	294	115	245		4-Φ9X14	220
GLF100(6)DX290-2	100	30	22.23	14.27	35	6	290	115	245		4-Φ9X14	180
GLF125(6)×235	125	32.5	28.58	14.27	40	6	235	195	95		4-Φ9	150
GLF125(6)D×300	125	32.5	25	18	50	6	300	115	245		4-Φ9X14	180

Model	Pitch P	Inner width b1	Roller diameter d1	Pin diameter d2	Plate width H	Plate thickness T	Plate channels L	Hole pace L1	Hole space L2	Hole space E	Hole diameter	Breaking Load in KN(Min.)
GLF125(6)D×370	125	32.5	25	18	50	6	370	130	330		4-Φ9X14	180
GLF160(6)D×385	160	36.5	36	17.8	50	8	385	130	330		4-Φ11X15	200
GLF200(6)D×467	200	42.5	40	20	60	8	467	160	420		4-Φ13X17	250

NOTE: Other specifications which are not listed above can be made to customs' specifications.

Drag Conveyor Flight

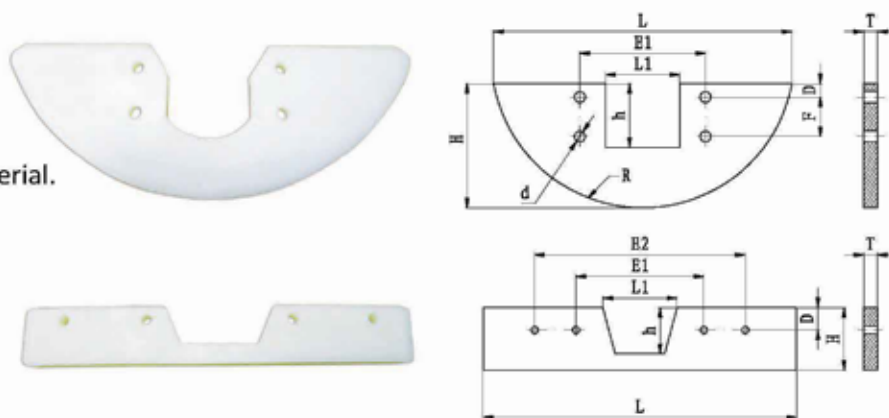
Features:

- High abrasion resistant.
- Reduce conveyor noise.
- Significantly reduce damage of material.

Model: BF type-For en masse type

BR type-For arc type

Material: HDPE/PA/UHMW-PE



Technical Parameter of BF Type:

Model	L	L1	T	H	h	E1	E2	D	d	Remark
BF480x90	480	90	16	90	70	170	310	44	9	The hold space,diameter can be adjusted according to client's requirement
BF380x90	380	90	15	90	70	155	255	44	9	
BF360x45	360	75	14	45	33	102	228	19	9	
BF305x55	305	70	14	55	37	95	195	22	9	
BF305x50	305	90	14	50	35	115	245	15	9	
BF305x45	305	75	14	45	33	102	228	19	9	
BF284x45	284	75	14	45	33	102	228	19	9	
BF255x49	255	70	14	49	35	105	190	16	9	
BF240x49	240	72	14	49	36	95	195	17	9	
BF208x49	208	70	14	49	36	90	150	17	9	
BF194x49	194	70	14	49	36	90	150	15	9	
BF185x50	185	90	14	50	35	115		15	9	
BF184x45	184	75	14	45	33	102		19	9	
BF145x45	145	75	14	45	33	102		19	9	

NOTE: Non-standard flights can be custom fabricated to your specifications.

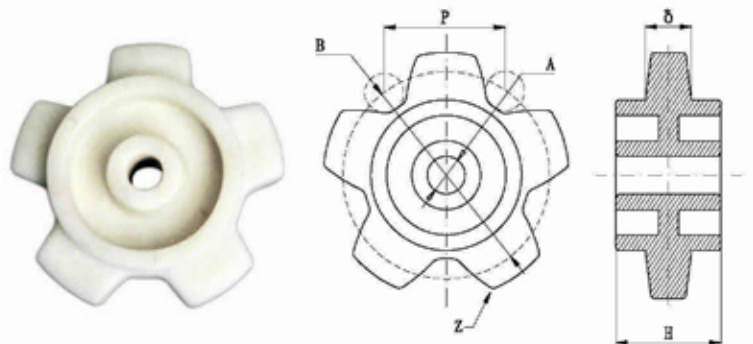
Technical Parameter of BR Type:

Model	L	L1	T	H	h	R	E1	F	D	d
BR205x142	390	60	15	142	56	205	102	32	18	9
BR198x148	375	60	14	148	77	198	142	32	26	9
BR185x132	350	60	14	132	58	185	102	32	19	9
BR162x108	303	104	14	108	67	162				
BR158x126	300	50	14	126	50	158	111.6	32	16	9
BR158x110	300	60	14	110	55	158	102	32	21	9
BR155x110	295	80	14	110	55	155	120	32	20	9
BR146x125	285	60	13	125	50	146				
BR135x110	262	72	10	110	53	135	102	32	19	9
BR125x100	242	60	10	100	52	125	102	32	11	9
BR122x90	230	60	10	90	40	122	102	32	14	9
BR110x77	200	40	9	77	42	110	50		53	9
BR110x70	195	48	10	70	40	110	90		11	9
BR100x90	196	60	10	90	45	100	102	32	14	9
BR100x74	180	55	10	74	43	100	102	32	12	9
BR90x90	180	60	10	90	43	90				
BR80x70	160	52	10	70	46	80	74	27	12	7
BR80x58	150	50	10	58	30	80	80		14	7

Nylon Gear Wheel for Chain Conveyor

Features:

- Casting with reinforced nylon material, adopting advanced technology to eliminate potential damage.
- Better wear-resistance, higher intensity, anti-impact than ordinary nylon.
- Compared with traditional metal rails, nylon gear wheel not only support more steady but also used by leading the way of chains.
- It is used for supporting the chains in the conveyor under long distance and complex work environment.



Model	A(mm)	B(mm)	δ (mm)	H (mm)	Pitch P (mm)	Gear number Z
TG100x5	$\phi 25$	$\phi 170.0$	34.2	70	100	5
TG76.2x5	$\phi 25$	$\phi 129.6$	22.5	50	76.2	5
TG68x5	$\phi 25$	$\phi 115.6$	24	47	68	5
TG68x4	$\phi 20$	$\phi 96.17$	25	45	68	4
TG66.5x6	$\phi 26$	$\phi 125$	25	57	66.5	6
TG66.5x5	$\phi 20-25$	$\phi 100$	25	57	66.5	5
TG66.5x4	$\phi 20$	$\phi 94.05$	25	57	66.5	4
TG63.5x5	$\phi 20$	$\phi 108$	17	45	63.5	5
TG38.1x8	$\phi 26$	$\phi 99.3$	20	50	38.1	8
TG38.1x7	$\phi 18$	$\phi 87.8$	12.5	25	38.1	7

Engineering Plastic

UHMWPE/HDPE FEATURES

Suitable for chemical, electromechanical, grain and pharmaceutical industry, manufacture container, basin, spacer and electrical insulating material.

Features:

- Low friction coefficient , high wear resistance, high impact resistant.
- Excellent chemical stability, corrosion resistance.
- Non-toxic, in accordance with FDA/USDA standards.
- Good self cleaning property, the temperature range: -150°C to 85°C .
- Low water absorption, the size will not change under the humid environment.



Item	Unit	Test Method	Value
Density	g/cm^3	ASTM1505	0.94
Tensile Break	Mpa	D638	42
Elongation at Break	%	D638	350
Izod Impact	Kj/m^2	D256	≥ 100

Thermal			
Melting Point	°C	ASTMD2117	136
Vicat softening temperature	°C	ASTMD1512	134
Linear Expansion Coefficient	10-4/°C	ASTMD648	1.5
Maximum Operating Temp. (4.6kg/cm ²)	°C	ASTMD648	90
Volume Resistivity	Ω·cm	ASTMD257	10 ¹⁷
Surface Resistivity	Ω	ASTMD257	10 ¹³
Breakdown Voltage	KV/mm	ASTMD149	900
Dielectric Constant	106 Hz	ASTMD150	2.3

Specification:

Name	Length (mm)	Width (mm)	Thickness (mm)	Outside diameter (mm)
sheet	3060	1260	6.5-200	
rod	300-1000			30-200
tube	3000-5000		3-20	120-800
flake		110	3	

NOTE: We offer size cutting and machining service. The color is available on request.

Extruded nylon sheet & rod

Features:

Good tenacity, abrasion resistance, oil resistance, the good property of molding process and water content, etc. It is used for friction bearings, bushings, gears, valve seats, couplings, rollers, cams, clamps, pump components, snap connectors, etc.



Name	Length (mm)	Width (mm)	Thickness (mm)	Outside diameter (mm)
Plate	550-2050	550-1050	6-100	
rod	500-1000			10-250
tube	560-1000		≥12	40-300

CASTING PU SHEET & ROD



Features:

- Wear resistance
- Impact resistance
- Wide adjustable range of hardness: (Shore A) 65~98
- Widely used in port, granary chute as dead block and lining plate, have low noise during working

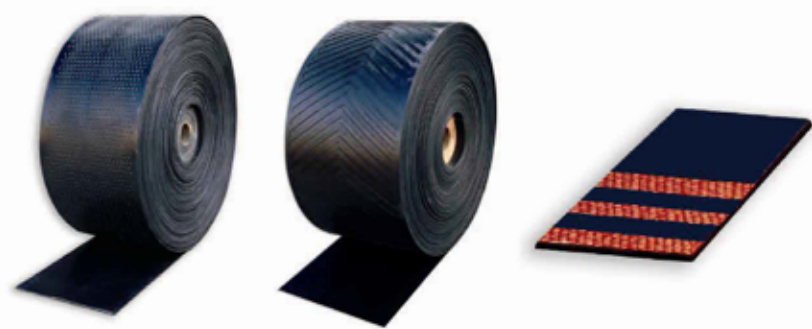
Profile:

Item	Units	Test Method	Value
Hardness	Shore A	HG827-76	65-98
Density	g/cm ³	ASTM1505	1.27
Tensile Strength	Mpa	GB/T528-2009	≥40
Residual Deformation	%	GB/T528-2009	≤10
Elongation	%	GB/T528-2009	≥450
Tearing Strength	KN/m	GB/T528-2009	≥80
Akron Abrasion	cm ³ /1.61km	HG4-827-76	≤0.06
Rebound Degree	%	GB/T528-2009	≥25
Surface Resistivity	Ω		7.8X10 ⁸ ~10
Coefficient of Friction			0.5-0.6
Melting Point	℃		150-180

Specification:

Name	Length (mm)	Width (mm)	Thickness (mm)	Outside diameter (mm)
Plate	1000-2000	1000	>6	
	1450-2000	500-530	≤6	
Rod	100-1000			300-1000
Tube	100-1000			30-1000

Conveyor Belt

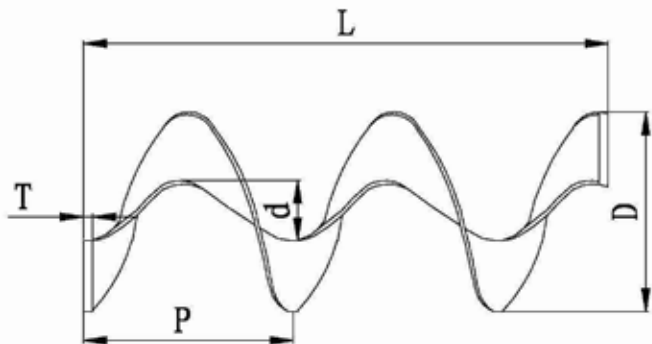


These belts have long life, light and thin, high strength, fatigue resistance, impact resistance, and many other features.

Technical Parameter:

Description	Type	Width (mm)	Application
Level conveyor belt	Cotton Conveyor Belt (Cotton, Terylene Cotton)	300-1800	applies to conveyed levelly of bulk materials, according to different load,choose different type
	Nylon type (NN100-NN300)		
	EP type (EP100-EP300)		
Pattern conveyor belt	Chevron type	500,600,650,800,100	applies to conveyed angle less than 30 degrees of bag materials
	Herringbone type		
	Round Concave type		applies to conveyed angle less

Continuous Cold Rolled Screw Flight



Features:

Manufacturing method: continuous cold rolled.
Material: Carbon Steel

- High accuracy, low material wastage
- Smooth blade surface finish, precision size, good rigidity
- Easy to weld and assemble.

Technical Parameter:

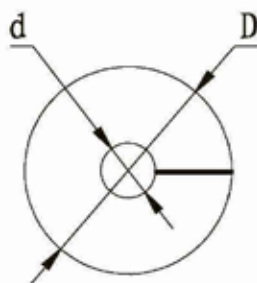
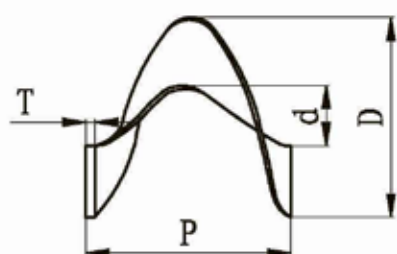
Model	LY125	LY160	LY200	LY250	LY320	LY400	LY500	LY630	LY800
Outside diameter D (mm)	φ125	φ160	φ200	φ250	φ320	φ400	φ500	φ630	φ800
inner diameter d (mm)	φ30	φ42	φ48	φ60	φ76	φ108	φ133		
Pitch P (mm)	100-125	120-160	160-200	200-250	250-320	320-400	400	450-500	500
Thickness T (mm)	3.5	3.5	3.5	3.5-5	3.5-5	3.5-5	3.5-5	5	5
Length L (mm)	standard length is 2000mm, can also according to customer need								

NOTE: Non-standard flights are available according to customer need.

Sectional Screw Flight

Features:

- This serious screw flight solve the problems which happened in traditional production, such as difficult control during the production. Large diameter, thicker thickness, special specification.
- Single pitch shape, the inner and outer thickness are same, the out diameter and inner diameter, pitch can be exactly according to customer's need.
- Compare to serious screw flight, it is more accuracy.



Material: Carbon Steel, Low Alloy Steel, Wear Resistant Steel, Stainless Steel, etc.

Technical Parameter:

Pitch P (mm)	Min inner diameter d(mm)	Max outside diameter D (mm)	Ratio of outside and inner diameter	Min outside diameter (mm)	Thickness range T (mm)
60-100	20	480	0.25	Min O.D. = Pitch Customized x Ratio	3-16
100-150	30	480	0.25		3-18
150-200	50	520	0.33		3-20
200-250	60	630	0.3		3-25
250-300	65	670	0.25		3-25
300-350	90	900	0.3		3-30
350-400	90	950	0.25		3-30
400-450	95	950	0.25		3-30
450-500	135	1150	0.33		3-35
500-550	150	1200	0.3		3-40
550-650	150	1200	0.3		3-40
650-750	200	1200	0.3		3-40
750-850	200	1250	0.28		3-40
850-900	250	1250	0.3		3-40

NOTE: The thickness of screw flights from 20mm to 25mm, the width of blade less than 400mm;

The thickness of screw flights from 25mm to 30mm, the width of blade less than 350mm;

The thickness of screw flights from 40mm to 40mm, the width of blade less than 280mm.

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