

Bucket Elevators

Bucket Elevators represent one of the most popular systems for elevating bulk materials in use today. Their inherent simplicity makes them a popular choice within manufacturing and processing factories all over the world. Continuous developments in bucket shape, head and boot profiles, manufacturing and operating specifications have resulted in the highly efficient Hiload range available today.

In general most free flowing materials and many materials with poor flow characteristics can be successfully handled with a bucket elevator. The specification of the standard range is also easily tailored to suit:-

- **fragile or friable materials**
- **oily materials and their products**
- **materials which fluidise**
- **abrasive materials**
- **hot or wet environments**

Guttridge Hiload Bucket Elevators are in operation all over the world in many different industry sectors handling a huge variety of bulk materials:-

Foods -

flour, rice, tea, sugar, milk powder, miscellaneous powders, flakes, granules

Animal Feeds, Pet Foods and Cereals -

wheat, barley, corn, oil seeds and their products, meals, pellets, flakes

Chemicals and Minerals -

cement, sand, glass cullet, asphalt, limestone, ores, coal, salt, fertilisers, fine powders

Biomass and Waste -

wood pellets, wood chips, paper, RDF, straw pellets, rubber, plastics, glass



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Optional Access Platform & Ladder



Industrial Duty Access Platform and Ladder

A robust heavy duty design constructed from heavy gauge sections.

- painted or galvanised finish
- clamp fixings for easy on-site fitting
- intermediate rest platforms available
- alternative layouts and ladder access
- configurations available

Optional Self-Clean Elevator Boot

Many applications cannot tolerate the level of cross-contamination that can occur in a standard design of bucket elevator. Our well-proven floating boot design overcomes these traditional short-comings in a very compact and cost-effective way.

The belt alignment and bucket-to-base clearance are manually set to suit individual plant requirements. General boot maintenance and belt tensioning are virtually eliminated, after initial commissioning, with only minimal amounts of residual material remaining after production runs.

- Complete control over cross-contamination
- Automatic belt tensioning to a pre-set tension
- Constant bucket-to-base clearance for minimal material residue
- Can be retrofitted to most proprietary elevators in current use
- Optional air purge and flexible 'wiper' blade removes remaining material residues
- Available in mild steel with a galvanised or painted finish and stainless steel



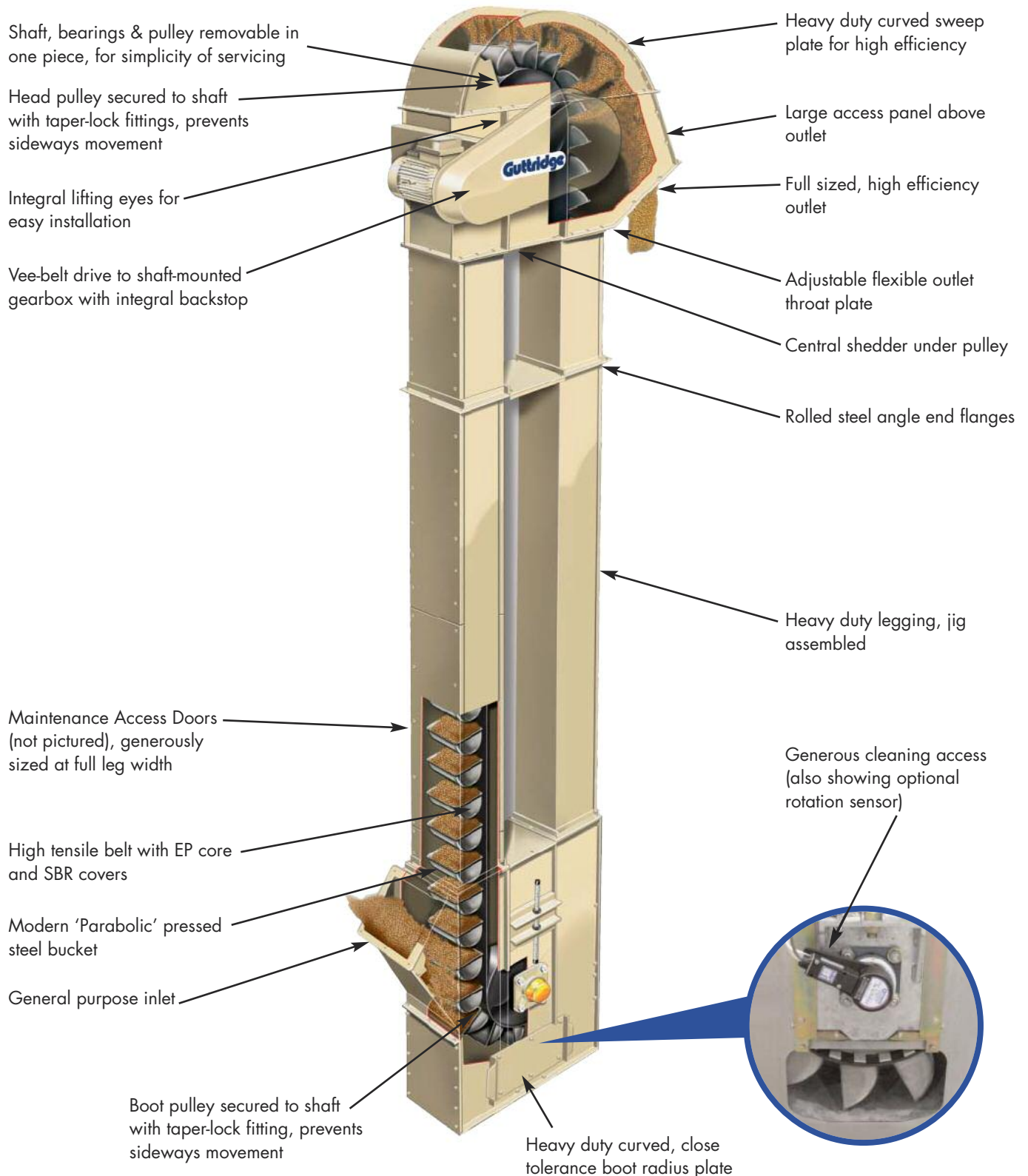
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Design

Our technical staff draw on a wealth of technical and operational experience to provide high quality advice and assistance to clients. There are many bucket systems available today and a plethora of design parameters that need to be varied to produce a cost-effective and efficient design of bucket elevator. We offer an unrivalled approach to design and specification which ensures that our machines are built to perform to the client's requirements. Guttridge machines are built to last with a lower lifetime cost.



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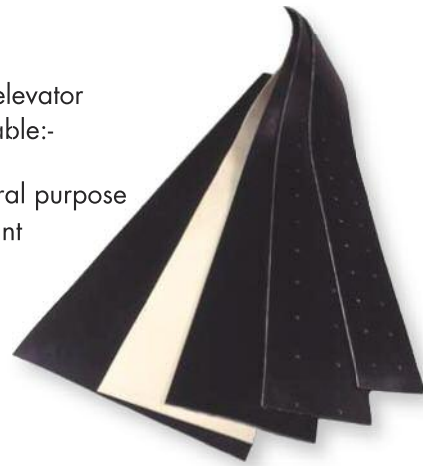
Optional Extras

- low level downleg inlet
- inlet/outlet adaptor to square
- inlet control slide
- head and boot wear plates
- chain & bucket systems
- special bearing and seal arrangements
- bearing temperature sensors
- geared motor & chain drive
- maintenance platform and ladder
- rotation and belt alignment sensors
- explosion relief panels (mandatory for some applications)
- self clean 'floating' boot
- stainless steel construction
- galvanised or alternative paint colours
- special designs to suit particular requirement



Various types of elevator belting are available:-

- standard general purpose
- oil & fat resistant
- heat resistant
- food quality



A wide selection of buckets are available to suit different product requirements:-

- standard mild steel pressed
- stainless steel pressed
- plastic
- bottomless
- reinforced, wear-plated
- special purpose fabricated



Head and Boot pulleys are specified to suit product requirements:-

- standard mild steel fabricated
- stainless steel fabricated
- rubber lagged
- cage & wing type



		Elevator Size		6LP	9LP	150HL	230HL	300HL	370HL	450HL
Illustrative Capacity	Cereals @ 750kg/m ³	35	50	60	140	230	350	430		
	Meals @ 560kg/m ³	13	18	28	57	136	208	248		
	Pellets @ 610kg/m ³	11	16	24	46	80	125	150		
	Flour @ 560kg/m ³	12	18	27	57	135	208	250		
	Sugar @ 800kg/m ³	16	24	33	66	116	178	212		
	Sand @ 1600kg/m ³			27	58	136	210	250		
	Cement @ 1100kg/m ³			22	48	112	173	205		
Nom. Dimensions	Casing Depth	640	640	800	1025	1200	1210	1210		
	Casing Width	270	370	276	384	500	566	703		
	Boot Height	650	650	992	1127	1378	1585	1585		
	Head Height	625	625	932	1163	1417	1508	1508		

All dimensions are nominal in mm, full planning dimensions are available on request.

Notes

1. Capacities quoted above are illustrative only and assume an accurate, controlled feed of dry free-flowing materials of the specified density. Air aspiration may also be necessary.
2. Capacity varies with the precise material characteristics, in particular density, particle size and flow characteristics.
3. Motor power, bucket size, spacing and belt speed are selected to match the individual performance and physical characteristics of the chosen elevator size, as well as customer's specified capacity. Some of these factors are also taken into account if product degradation needs to be minimised.
4. When specifying a bucket elevator there are many factors which need to be taken into account, therefore technical advice must be sought before ordering.
5. We have experience with many different types of materials and can specify machines to handle up to 1350m³/hr - if in doubt please ask.

Specifications and dimensions may be altered without prior notice.

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