

## TL - TOUGHLIFT JACKING SYSTEMS

The Hi-Force ToughLift jacking system offers users the easiest and safest method of lifting material haulers in the mining and construction industry and locomotives in the railway industry, when critical maintenance and breakdown repair work is required. Suitable for lifting even the largest earth haulers in the world, the Hi-Force ToughLift is available in 50, 100, 150 and 200 tonne lifting capacities.

With the introduction of the TLA20027 to the range, lifting heights have been increased to 685mm without the need for extensions and all air driven models are operated by a 6 bar air driven motor.

The Hi-Force ToughLift models incorporate a 3-speed pump unit, giving faster advance and retract times, both under load and no load conditions. All models are fitted with a load tonnage gauge as standard and new low maintenance 3-piece handle design to increase manoeuvrability. To aid with lifting, the models come with dedicated lifting points to keep the unit balanced and secure while lifting. A newly designed manifold and muffler allows for easier maintenance and better flow, improving the performance on all air driven ToughLift models.

The redesigned wheel position on the frame and wear-resistant steel base plate offer better ground clearance, making the Hi-Force ToughLift suitable for use on varied terrains. Pivot plates fitted on all models allow the cylinder and tank unit to articulate separately, thus retaining the load on the base plate and preventing the force from being transferred to the wheels. New optional accessory options include load block tool box and pneumatic tyres available on 100, 150 and 200 tonne models.

All Hi-Force ToughLift jacking systems are supplied fitted as standard with a hardened steel lifting saddle. 50 tonne models come with a patented "snap latch" handle assembly for easy positioning and transportation and a patented jacking system designed for increased safety, enabling them to be easily positioned, in the tightest of spaces, to ensure location into the correct and exact lifting and jacking position.

For ease of use and safety, all Hi-Force ToughLift models are operated via a 5 metre remote, push button hand pendant controller to ensure the operator has precise control over the lifting operation from a safe distance. All Hi-Force units come with pneumatic pilot valves with pendant control and 50 tonne models also come with solenoids as a standard option. The 100, 150 and 200 tonne models can have solenoids and electric driven pump as options available upon request.

The Hi-Force ToughLift is built with the cylinder as a one-piece design making it effective against side loading and allowing for quicker turnaround times, should the unit require servicing. Fitted with large diameter wheels and heavy duty solid tyres as standard, all ToughLift models are narrow in width and have the smallest footprint area in the industry.



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Working pressure 700 Bar

Choice of 8 models with a range of accessories

Used in mining, construction & railway industries

- >> Choice of 50, 100, 150 or 200 tonne lifting capacities
- >> High speed 3-stage pump unit offers faster advance and retract times, both under load and no load
- >> Solid tyres fitted as standard with option of pneumatic tyres
- >> Narrow width wheels and redesigned wheel position for better ground clearance and balance when manoeuvring
- >> Longer, robust 4-position lifting handle design for increased leverage and manoeuvrability on 100, 150 and 200 tonne models
- >> Integral airline filter, lubricator and pressure regulator unit on air driven models. Option of auto-drain unit available on request.
- >> Push button remote hand pendant controller with 5 metre control cable
- >> Load tonnage gauge fitted as standard on 100, 150 and 200 tonne models
- >> User friendly design with easily accessible maintenance features
- >> Wide range of accessories available for even greater versatility (see pages 173 and 174)

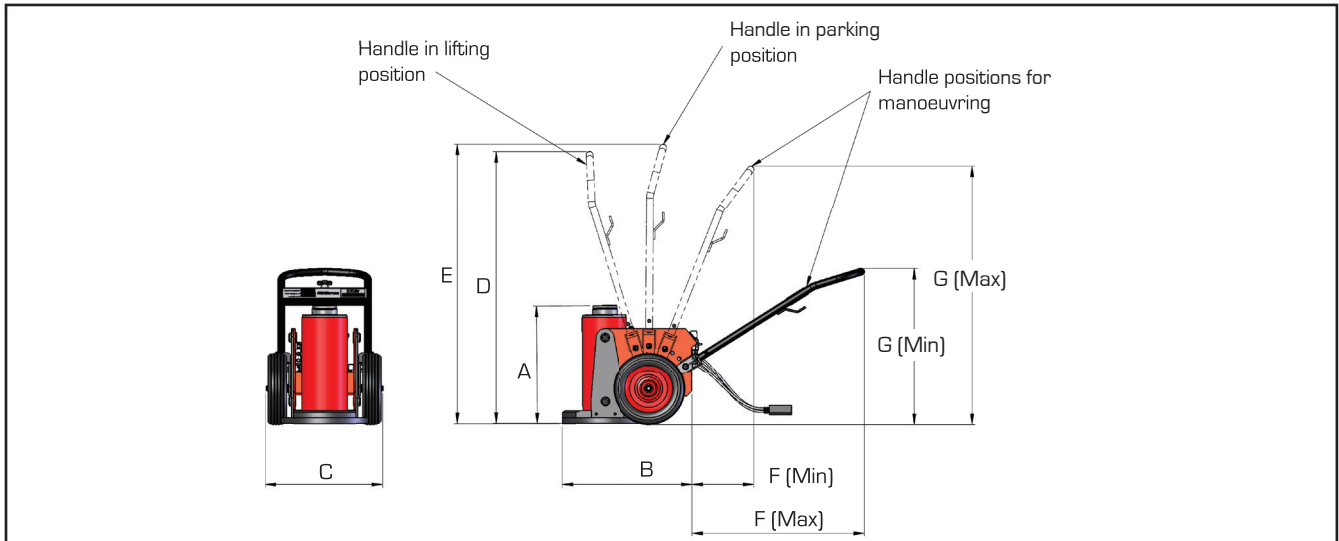
Model number	Capacity tonnes	Power Supply	Stroke mm	Weight kg	Max additional stack in mm
<b>TL050A255</b>	50	6-Bar air driven	254	160	680
<b>TL050E255</b>	50	240V electric	254	168	680
<b>TLA10016</b>	100	6-Bar air driven	405	289	480
<b>TLA10021</b>	100	6-Bar air driven	530	319	180
<b>TLA15015</b>	150	6-Bar air driven	390	313	485
<b>TLA15020</b>	150	6-Bar air driven	520	349	180
<b>TLA20015</b>	200	6-Bar air driven	381	373	500
<b>TLA20027</b>	200	6-Bar air driven	685	453	180

Note: 100, 150 and 200 tonne electric driven Hi-Force ToughLift jacking systems available on request

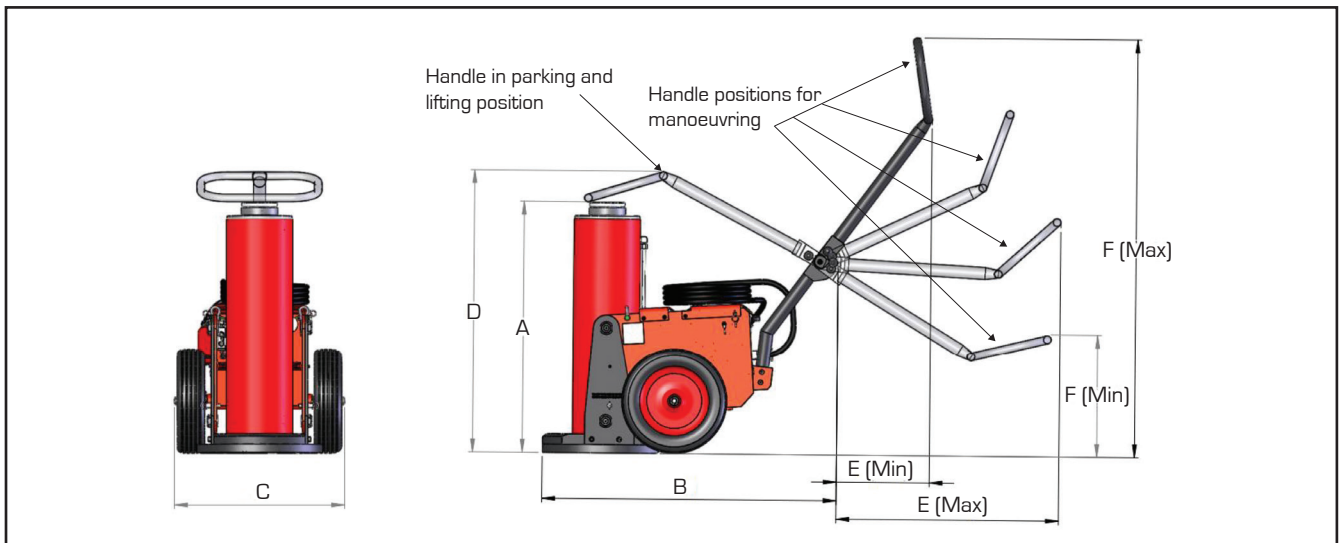


## TL - TOUGHLIFT JACKING SYSTEMS

Drawings for 50 tonne models:



Drawings for 100, 150 and 200 tonne models:



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Model number	Dimensions in mm						
	A	B	C	D	E MIN - MAX	F MIN - MAX	G MIN - MAX
<b>TL050A255</b>	455	660	560	1440	1440	380-1000	700-1300
<b>TL050E255</b>	455	660	560	1440	1440	380-1000	700-1300
<b>TLA10016</b>	665	1130	652	831	356-854	465-1605	-
<b>TLA10021</b>	843	1130	652	946	356-854	465-1605	-
<b>TLA15015</b>	665	1130	652	835	356-854	465-1605	-
<b>TLA15020</b>	843	1130	652	963	356-854	465-1605	-
<b>TLA20015</b>	660	1130	652	830	356-854	465-1605	-
<b>TLA20027</b>	964	1130	652	1085	356-854	465-1605	-