

DGT LV7 and LV20 Rack and Pinion Vent Openers

Aluminium rack and pinion vent openers

The LV7 and LV20 are aluminium rack-and-pinion openers for greenhouse vents, available straight (R) or curved (B). LV7 is the normal-strength type for standard aluminium glasshouses up to 150 cm of opening, and LV20 is the extra-strong type for longer openings and heavy structures.

Recommended loads are 50 kg (LV7 straight), 25 kg (LV7 curved), 75 kg (LV20 straight) and 40 kg (LV20 curved). Lengths run from 60 cm to 250 cm for windows, with LV20 screen racks up to 450 cm. Racks are supplied complete with pinion, rivet and screws, with or without a t-bracket, or as rack only.

A hard aluminium rack works with a zinc pinion on synthetic rollers, and the teeth sit close to the drive shaft to keep motor torque low. Racks should be spaced no more than 2 m apart and greased at least once a year.

Key capabilities

- LV7 (normal strength) and LV20 (extra strong) versions
- Straight (R) and curved (B) racks
- Hard aluminium alloy rack with zinc pinion
- Synthetic rollers and bearings in the pinion for low friction and noise
- Solid aluminium mounting points keep the hole round
- Teeth placed close to the drive shaft to reduce torque demand
- Closed housing and factory-lubricated pinion for minimal maintenance
- Many lengths, supplied complete, without t-bracket or as rack only
- Rack stop available for shallow roof pitches

Technical specifications

LV7R (straight) recommended load	50 kg
LV7B (curved) recommended load	25 kg
LV20R (straight) recommended load	75 kg
LV20B (curved) recommended load	40 kg
LV7 recommended max. opening length	150 cm (165 cm for certain special constructions)
LV7R straight lengths	60 - 165 cm (50 cm rack only)
LV7B curved lengths	75 - 165 cm
LV20R straight lengths (windows)	65 - 250 cm
LV20R straight lengths (screens only)	300 - 450 cm

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LV20B curved lengths	65 - 160 cm
Length tolerance	+/- 5 cm
Rack spacing	Max. 2 m between racks
Pinion item numbers	LV7R 840070, LV7B 840080, LV20 (straight and curved) 840200
Material	Hard aluminium alloy rack, zinc pinion
Minimum maintenance	Grease rack at least once a year

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