



VELORA

Passenger Elevator — 1000 kg / 13 P

MRL gearless traction · 8 stops · 1.6 m/s · EN 81-20/50
compliant.

CAPACITY

1000 kg / 13 P

SPEED

1.6 m/s · 8 stops

STANDARD

EN 81-20/50 · ISO 8100

Engineering-Driven Supply.

Velora Engineering & Trading PLC · Addis Ababa, Ethiopia · www.veloraet.com

SAMPLE / INDICATIVE DATASHEET — actual specification confirmed at quotation

Passenger Elevator — 1000 kg / 13 Persons

MRL gearless traction · 8 stops · 1.6 m/s · EN 81-20/50 compliant.

Key Highlights

- **Capacity:** 1000 kg / 13 persons
- **Drive:** Gearless permanent-magnet, machine-room-less (MRL)
- **Speed:** 1.6 m/s · 8 stops · ~24 m travel
- **Compliance:** EN 81-20, EN 81-50, EN 81-58 (fire-rated landing doors)
- **Cabin:** Stainless steel, LED panel, full-height infrared light curtain

1. General

Application	Mid-rise commercial / residential passenger transport
Elevator Type	Passenger lift — single car
Origin Tier	Türkiye / China Tier-1 / EU OEM (project dependent)
Reference Code	VEL-ELV-PASS-2026
Quantity	1 unit (sample configuration)

2. Performance

Rated Capacity	1000 kg / 13 persons
Number of Stops	8 (G + 7 upper floors)
Travel Height	~ 24.0 m
Rated Speed	1.6 m/s
Service Duty	Heavy passenger · 240 starts/hour
Floor-to-Floor (avg)	3.0 m

3. Drive System

Drive Type	Gearless permanent-magnet, MRL
Motor	Permanent-magnet synchronous, encoder feedback
Drive Control	VVVF closed-loop, regenerative-ready
Suspension	Steel ropes 8 mm × 6 (or coated belts)
Machine Room	Machine-Room-Less (drive in shaft head)

4. Cabin

Cabin Size (internal)	1100 × 2100 × 2300 mm (W × D × H)
Wall Finish	Hairline stainless steel with mirror panel (rear)
Floor	Granite / porcelain (project dependent)
Ceiling	LED panel, indirect cove lighting
Lighting Level	≥ 100 lux at floor + emergency battery backup
Handrail	Stainless steel tubular (rear wall)
COP	Stainless steel, micro-movement buttons, digital display
Ventilation	Forced ventilation fan (cabin AC optional)

5. Doors

Configuration	Centre-opening, 2-panel
Material	Hairline stainless steel
Clear Opening	900 × 2100 mm
Operator	VVVF synchronous, smooth open/close
Safety Edge	Full-height infrared light curtain (≥ 154 beams)
Fire Rating	EI60 / E120 per EN 81-58

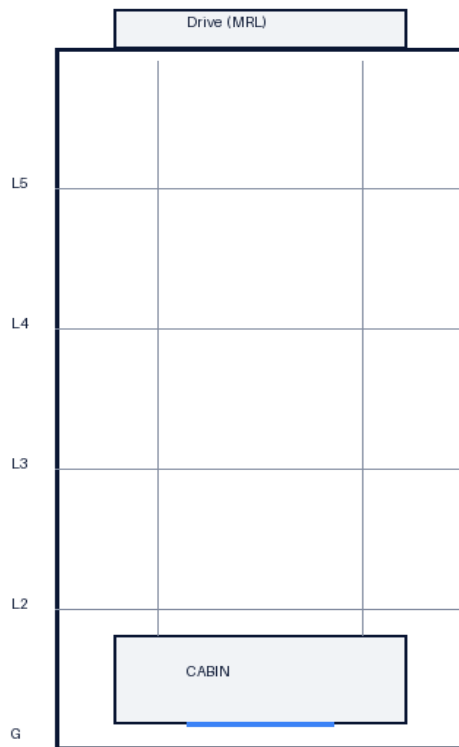
6. Control & Safety

Control Type	Microprocessor, simplex collective selective
Hall Calls	Up/down push-button per landing, digital indicator
Standard Safety	Overspeed governor, progressive safety gear, buffers, final limit, alarm
Compliance	EN 81-20, EN 81-50, EN 81-58 (doors), ISO 8100 (reference)

7. Indicative Schematic

Indicative Shaft & Cabin Schematic

Not to scale for illustration only.


Key Components

- **Hoistway / Shaft**
Reinforced concrete structure
- **Cabin**
Stainless steel, LED-lit, COP panel
- **Drive System**
Gearless MRL (machine-room-less)
- **Doors**
Centre-opening, infrared light curtain
- **Controller**
VVVF, microprocessor, EN 81-20
- **Safety Devices**
Governor, safety gear, buffers

EN 81-20 / EN 81-50 compliant · ISO 8100 reference

Sample configuration. Final cabin model, finishes, controller and door type are confirmed against project requirements at quotation.