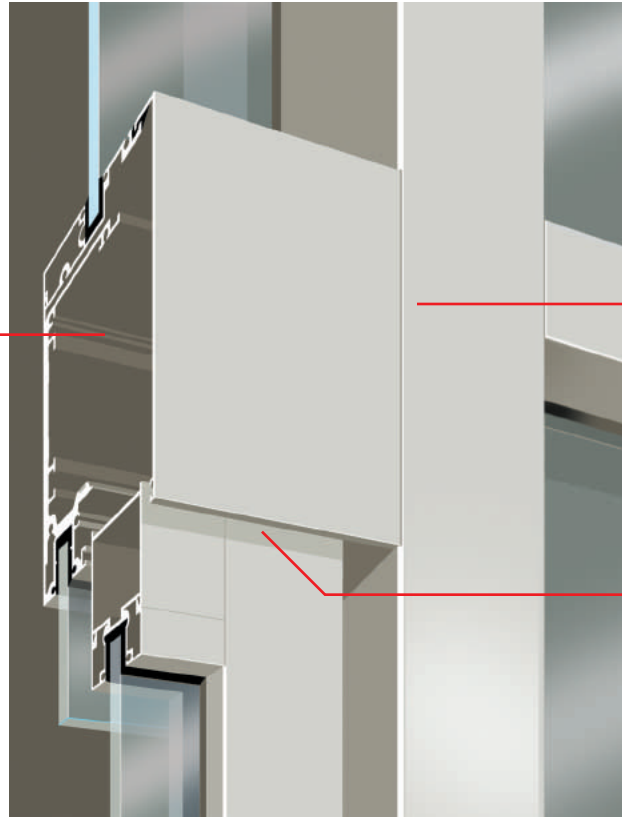




**Slim-profile, integrated transom-operator system**

Matches standard 100mm aluminium joinery

Provides complete concealment for all automation componentry



Automation within transom allows uninterrupted overlight glazing options

**Flush pelmet-to-mullion fit**

Presents smooth appearance yet easy access to operator via hinged pelmet

**Adaptable door carriage componentry**

Offers a choice of framed or frameless door style options.



**Unobtrusive appearance**

Slim profile presents uninterrupted interior wall plane.

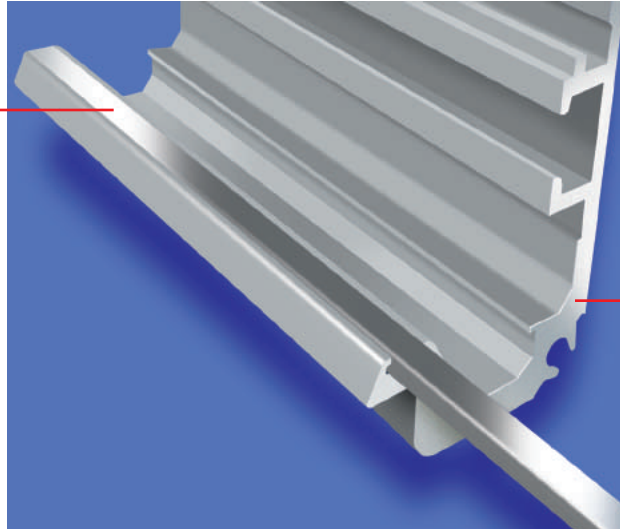


**Track and carriage detail**

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**Stainless-steel track insert**

- Presents hardwearing, corrosion-resistant finish
- Provides quieter operating performance
- Offers longer operational life

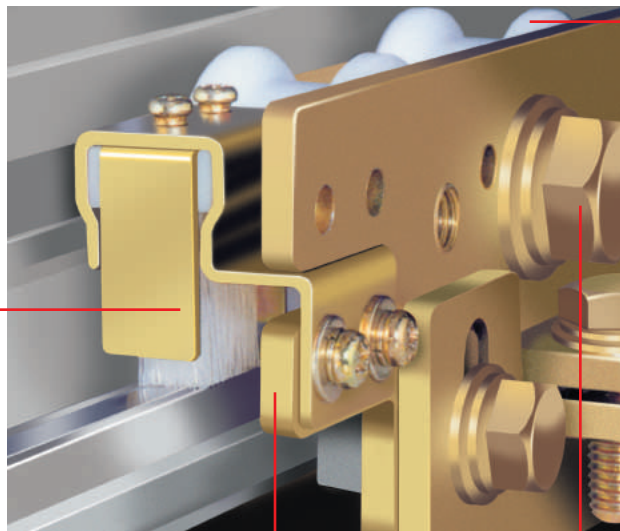


**Heavy-duty cowl profile**

- Allows slimmer cowl construction
- Presents less obtrusive appearance

**Self-cleaning mechanism**

- Sweeps track clear of dust and debris twice with each door activation
- Ensures longer life for wheels and componentry



**Dual-wheel bogey traction**

- Reduces wear on running gear surfaces
- Shares door weight across four wheels per door leaf
- Reduces side pressure movement on door leaves via double-race bearings on each wheel
- Increases performance life and reliability
- Offers smoother, quieter operation than single-wheel assemblies

**Heavy-duty modular construction**

- High-tensile alloy components offer longer life
- Modular assembly provides accessibility for regular servicing.

**Automatic carriage balance mechanism**

- Significantly reduces potential of carriage derailment
- Ensures at least one wheel per carriage always retains traction



**Micro servo controller**

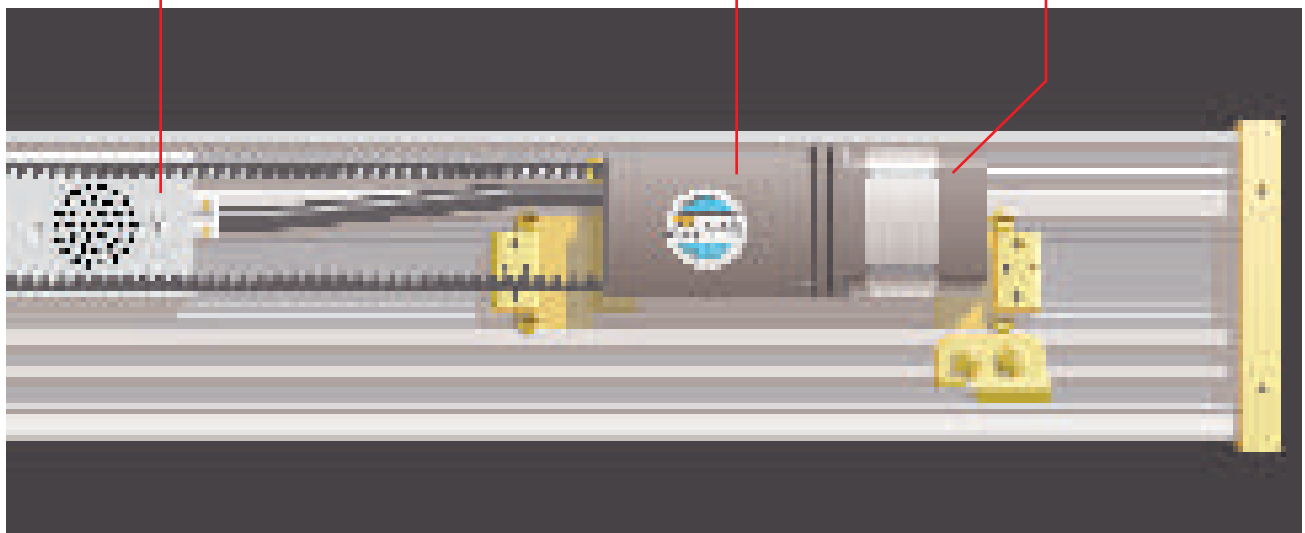
- Computer-aided digital system
- Closed-loop servo control
- Automatic and constant door position detection
- Automatic anti-clamp safety feature
- Automatic obstruction and collision return-to-open safety feature
- Fully adjustable operation settings
- Adjustable bad-weather operation feature
- Eleven LED-indicated standard interface functions
- Sidelight safety-curtain option
- Superior quality electronic drop-bolt lock option

**Reduction gearbox**

- Ensures direct transmission of drive to door leaves
- Single-gear train for power transfer
- Carbon steel construction for long life
- Withstands high-torsion movement during startup
- Presents low operational noise level

**Servo motor**

- Permanent magnetic brushless design
- Fully controlled operating speeds
- Highly efficient closed-loop operation feature



**Regulations compliance**

Swish automatic door operators comply fully with relevant Building Act and Occupational Safety and Health legislative requirements, as well as Australian and New Zealand standards ANZS 4239-93 for Automatic Door Assemblies:

- Section 3: Adjustment of door opening and closing speeds.
- Section 4: Adjustment of sensor range and operation.
- Section 4.5: Safety beam location, setting and operation.
- Para 7.2.7: Fire egress failsafe requirements.
- Para 7.2.7: Lock system failsafe and emergency egress release provisions.
- Security: Battery backup to ensure security maintenance during power failure.

**Installation and servicing**

Installation is provided throughout New Zealand by certified, approved installers. Servicing and maintenance is provided by trade-qualified, IQP-certified technicians in a nationwide service network with round-the-clock emergency callout response facilities. Contact Swish Automation for a list of registered installers and service technicians.

**Warranties**

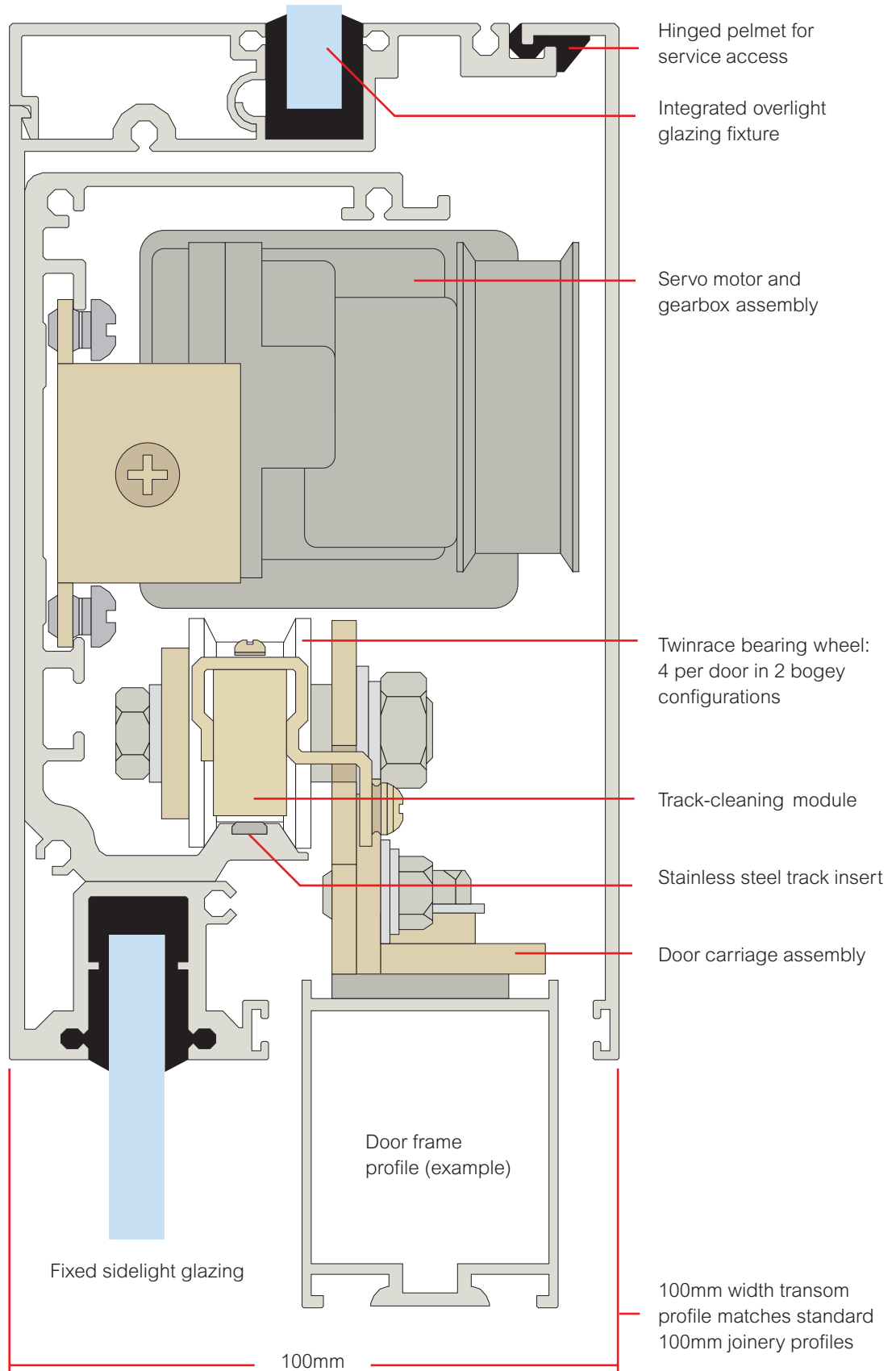
Swish Automation supplies warranties on all parts of Swish door-operating systems for three years provided the system is serviced by approved trade and IQP-certified technicians every three months in compliance with relevant Building Act legislation.



In-transom Operator section

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Scale 1:1



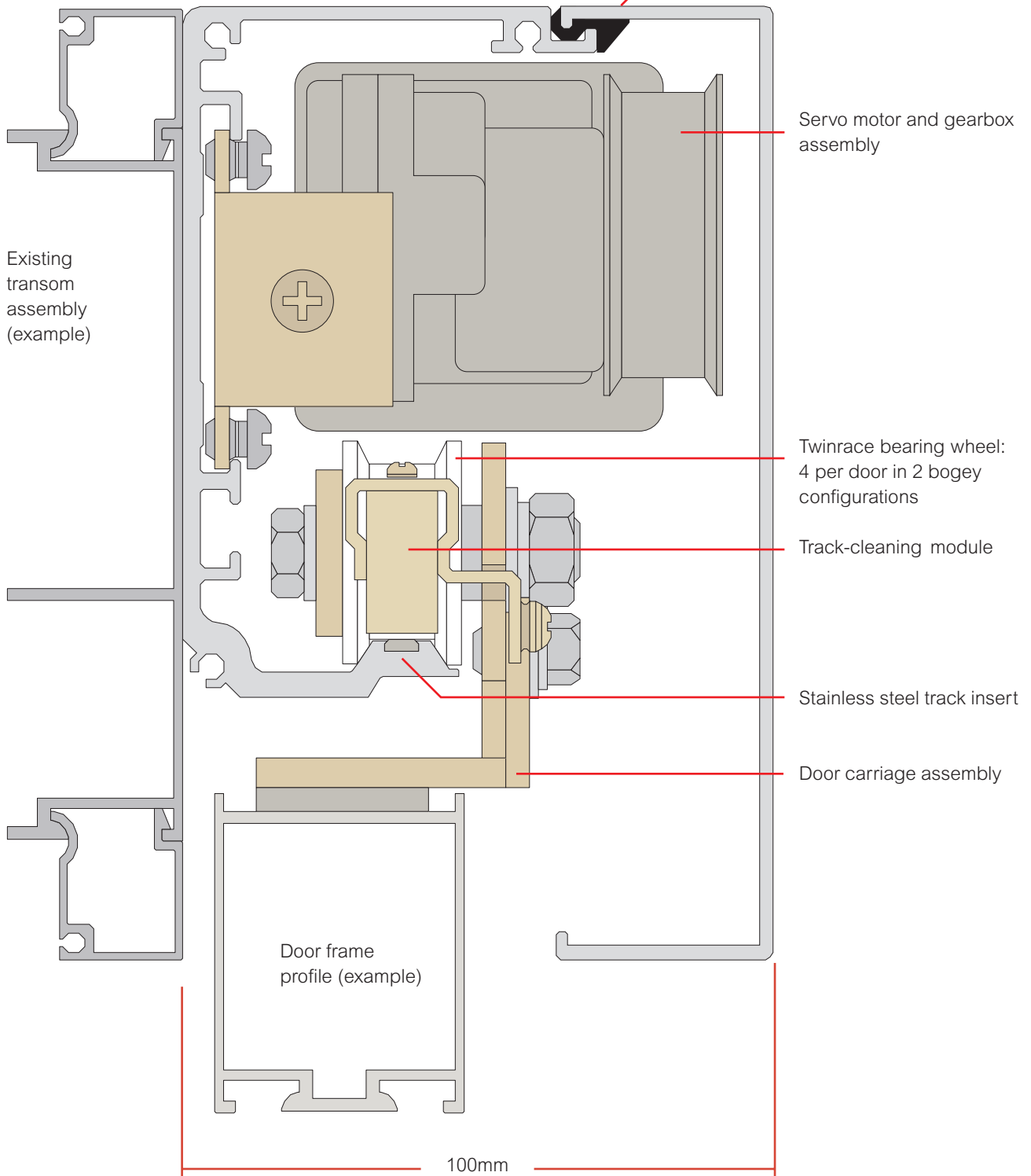


Surface-mounted Operator section

March 2006

Scale 1:1

Hinged pelmet for service access





**Performance Statistics**

March 2006

**Model GS 45**

	<b>Single leaf</b>	<b>Bi-parting</b>
Max weight	150kg	240kg
Max open/close speed	450mm per second	450mm per sec per leaf
Min door leaf width	500mm	500mm
Max motor power	75W	75W
Max starting power	300W	300W
Stand-open time	0.5 – 20 seconds	0.5 – 20 seconds

**Model GS 60**

	<b>Single leaf</b>	<b>Bi-parting</b>
Max weight	150kg	240kg
Max open/close speed	600mm per sec	600mm per sec per leaf
Min door leaf width	600mm	600mm
Max motor power	90W	90W
Max starting power	360W	360W
Stand-open time	0.5 – 20 seconds	0.5 – 20 seconds

**Model GS 80**

	<b>Single leaf</b>	<b>Bi-parting</b>
Max weight	150kg	240kg
Max open/close speed	800mm per sec	800mm per sec per leaf
Min door leaf width	750mm	750mm
Max motor power	100W	100W
Max starting power	400W	400W
Stand-open time	0.5 – 20 seconds	0.5 – 20 seconds

**Model GS 100**

	<b>Single leaf</b>	<b>Bi-parting</b>
Max weight	150kg	240kg
Max open/close speed	1000mm per sec	1000mm per sec per leaf
Min door leaf width	850mm	850mm
Max motor power	120W	120W
Max starting power	480W	480W
Stand-open time	0.5 – 20 seconds	0.5 – 20 seconds

**Standard specifications for all models**

- Choice of in-transom or surface-mounted operator
- Stainless steel track insert
- Automatic carriage-balancing mechanism
- 4 wheels per door leaf in twin bogey configurations
- Dual bearing races on each wheel
- Built-in track cleaning unit
- Brushless motor with twin-gear direct-drive gearbox
- Micro servo closed-loop controller
- LED control indicators for 11 functions
- Electronic bolt-action locking system
- Opening-width options at 50%, 75% and 100%
- Ambient operating temperatures -20°C to 50°C

