As a manufacturer of automatic doors, we have to take into account both technical requirements and architectural ideas. We have often come across projects in which a supposedly good compromise, in the form of an ultra-slim door drive module, did not satisfy the wishes of the customer. It comes as no surprise, then, that under floor drives have been with us for over 25 years, and enjoy a special status. Our know-how and innovative spirit, coupled with our longstanding collaboration with internationally renowned architects, has in the course of time, almost inevitably led us to become particularly expert in the field of invisible drives. Please contact us with your wishes. We will very quickly be able to install a suitable solution.

C90 / C127 SU
Under floor swing door drives

S16 SU
Under floor linear sliding door drive

R61 SU
Under floor radial sliding door drive

AUTOMATIC DOOR SYSTEMS
SPECIAL CONSTRUCTIONS

BMW Welt, Munich • Bank of China, Beijing • Mercedes-Benz, Stuttgart, Paris, Hong Kong • Casa da Musica, Porto • European Parliament, Strasbourg • Ferrari, Wiesbaden • Airport Budapest • CMA CGM Tower, London • Hotel Bayerischer Hof, Munich • Mandarin Oriental, London • British Museum, London • Swissotel, Chicago • Porsche Museum, Stuttgart • JFK Airport, New York

INTEGRATION
For swing door drives, BLaSI provides two under floor designs, the C90 SU and C127 SU models. The C90 SU was specially designed for doors up to 600 kilos. The built-in stainless steel housing also has integrated floor bearings. The drive unit consists of an electro-mechanical system with high performance gears and low noise power transmission. In case of power failure, an option is emergency opening, while door leaves can be moved without effort should the power failure continue for longer than expected.

For door leaf weights of up to 400 kg, we recommend using the C127 SU. The drive also contains the bottom door bearing, and moves the door leaf using a swinging arm. The highly effective IP67 standard seal enables virtually unrestricted daily use, and is immune even to puddles of melt or rainwater, including fluids used by floor cleaning machines, which can be corrosive.

Higher door leaf weights on request.

For radial door drives, BLaSI provides under floor radial sliding door drives the BLaSI R61 SU. The drive is an under floor drive for round and curved sliding doors. Compared to conventional drive concepts, there are no restrictions of the radius of the curve. Doors can also be curved inwards and outwards.

With the radial and linear under floor versions, the entire door leaf weight rests on the drive module base alone. The upper guide rail is designed merely to absorb horizontal forces caused by wind forces, and a minimum height of 55 mm is provided for this. The maximum height of door systems is currently 5000 mm.

Optionally, doors can also be controlled by motion sensors embedded in the floor. Even with peripheral devices, the idea of the invisible drive is still a top priority at BLaSI.

### Specifications:

**C90 SU**
- Under floor swing door drive (special)
- Circuit voltage: 230 V aC 50 / 60 Hz
- Power consumption: 25 W / 13 W standby, 220 W / 67 W rated power
- Maximum torque: 190 nm / 50 nm
- Maximum moment of inertia of door leaves: 300 kgm²
- Adjustable parameters:
  - opening angle: +100° to –100° / 70° to 115°
  - Hold open time: 0 to 10 sek. / 0 to 20 sek.
  - opening speed: 3 to 20 sek.
  - Closing speed: 5 to 20 sek.
- Type of protection: IP54 / IP67
- Operating conditions:
  - ambient temperature: −15° to +50°C
  - Humidity range: Up to 85 % relative humidity, non-wetting
  - Wind load: Designed for wind load zone 2 (25 m / s)

**C127 SU**
- Under floor swing door drive (allround)
- Circuit voltage: 230 V aC 50 / 60 Hz
- Power consumption: 220 W / 67 W rated power
- Maximum width of passage: 2000 mm
- Maximum height of passage: 3000 mm
- Adjustable parameters:
  - opening angle: 0° to 180°
  - closing speed: 0.7 m / s
- Type of protection: IP67
- Operating conditions:
  - ambient temperature: −15° to +50°C
  - Humidity range: Up to 85 % relative humidity, non-wetting
  - Wind load: Up to 110 km / h

**S16 SU**
- Under floor linear sliding door drive
- Circuit voltage: 230 V aC 50 / 60 Hz
- Power consumption: 15 W standby, 250 W rated power
- Maximum door leaf weight: 1 x 200 kg (eSt) / 2 x 200 kg (DSt)
- Maximum width of passage: 4000 mm
- Maximum height of passage: 5000 mm
- Adjustable parameters:
  - Hold open time: 0 to 60 sek.
  - opening speed: up to 0.7 m / s
  - Closing speed: up to 0.7 m / s
- Type of protection: IP54
- Operating conditions:
  - ambient temperature: −15° to +50°C
  - Humidity range: Up to 85 % relative humidity, non-wetting
  - Wind load: Up to 110 km / h

**R61 SU**
- Under floor radial sliding door drive
- Circuit voltage: 230 V aC 50 / 60 Hz
- Power consumption: 15 W standby, 250 W rated power
- Maximum door leaf weight: 1 x 200 kg (eSt) / 2 x 200 kg (DSt)
- Maximum width of passage: 4000 mm
- Maximum height of passage: 5000 mm
- Adjustable parameters:
  - Hold open time: 0 to 60 sek.
  - opening speed: up to 0.7 m / s
  - Closing speed: up to 0.7 m / s
- Type of protection: IP54
- Operating conditions:
  - ambient temperature: −15° to +50°C
  - Humidity range: Up to 85 % relative humidity, non-wetting
  - Wind load: Up to 110 km / h