

DICTAMAT 900-21

For automation of very large doors up to 4000 kg



CHARACTERISTICS

- For doors and gates up to 10 m (standard version)
- Standard pull force: 1200 N (on request also possible from 370 N to 2200 N)
- Standard for gates up to max. 1500 kg (on request also up to 4000 kg)
- Suitable for up to 300 operations per day (depending on gate mass and speed)
- Motor in de-energized state: blocked
- Built-in thermal sensor
- Position detection: built-in encoder or separate limit switch on request
- Enables compliance with the Machinery Directive
- Suitable control unit: Square 940-2



OPTIONS

- **Release device:** For all operators with mechanical brake, the gates are blocked in case of power failure. If the gates have to be moved manually even in case of power failure, the following options are available: additional mechanical release device or electromagnetic clutch.
- **Brake:** Equipped as standard with a mechanical brake that stops the gates within the prescribed paths even in the event of a power failure. For gates not covered by EN 12453, the operators can be supplied without brake.
- **Accessories:** Due to the extremely large forces when the mechanical brake is applied, very stable fastenings are required. Rail mounting is generally not possible. Additional brackets are available for wall mounting.



 Questionnaire

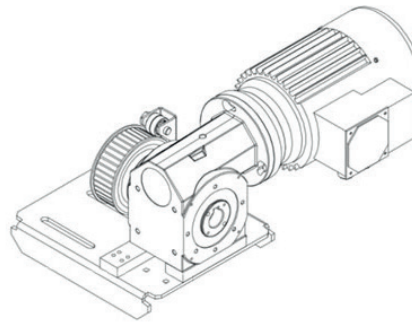
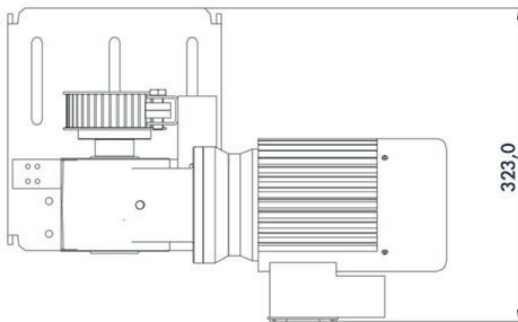
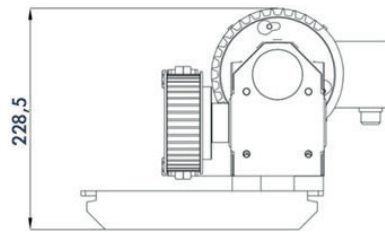
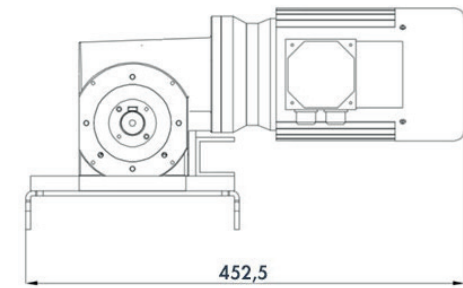
TECHNICAL DATA

Type / Motor Rating	0.37 kW
Force of the motor	1200 N
Opening and closing speed	separately adjustable
max. m/sec.	0.2
Voltage	230/400 VAC
Nominal current pf the control system	8 A
Driving torque (at the axle of the operator)	61 Nm
Braking moment (mechanical brake)	5 Nm
Duty cycle	40 % ED
IP rating	IP 55
Weight (without accessories)	21 kg
Doors up to*	1500 kg*
Travel	10 m

* The given weights are just reference values.
The determining point is how easily the door moves

DIMENSIONS

All dimensions in mm



INSTALLATION



Technical
manual

COMPONENTS

Blue: Standard components (included in delivery) | **Gray:** Additional components



Standard components included in delivery

1. Operator: worm wheel gear unit with 230/400 VAC three-phase motor and built-in brake, integrated thermal sensor, 2 m connection cable to control unit, output wheel for toothed belt with U-holder
2. Idler pulley for toothed belt with integrated tensioning device with U-holder
3. Belt fixing bracket with clamping plates for toothed belt

Additional components

4. Toothed belt
5. Wall bracket for door operator
6. Wall bracket
7. Support roller with U-holder for the toothed belt (to prevent the toothed belt from sagging - from 4 meters free running toothed belt)
8. Additional belt fixing bracket with clamping plates for toothed belt, for double-leaf gates

Additional components (not depicted)

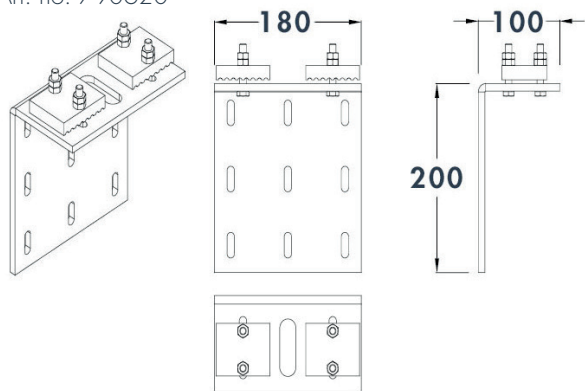
- **Mechanical release device:** Due to the built-in brake, the DICTAMAT sliding gate operators are blocked in case of power failure. With the help of the manual release clutch, the output wheel is disconnected from the gearbox via the rope supplied and can be moved freely. The gate can thus be moved smoothly. The rope must be fixed manually.
- **Electromagnetic clutch:** Thanks to the built-in brake, the DICTAMAT sliding gate operators are blocked in the event of a power failure. With the help of the electromagnetic clutch, the output wheel is automatically disconnected from the gearbox in case of power failure and can be moved freely. The gate can thus be moved easily. The electromagnetic clutch is supplied via a separate power supply unit. A separate capacitor pack is required to ensure safe braking in the event of a power failure.

ACCESSORIES

All dimensions in mm

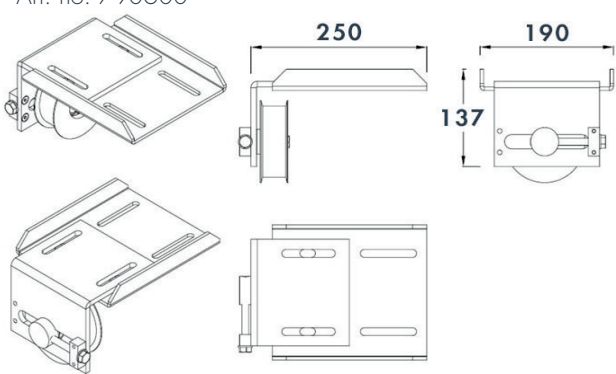
Belt fixing bracket

Art. no. 790620



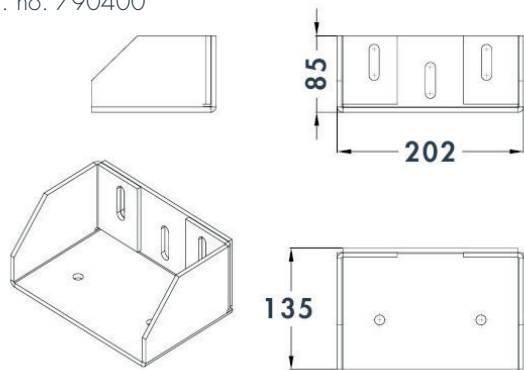
Idler pulley with tensioning device

Art. no. 790600



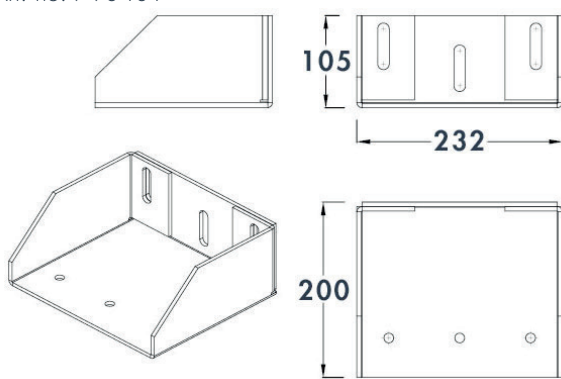
Wall bracket for idler pulley / supporting roller

Art. no. 790400



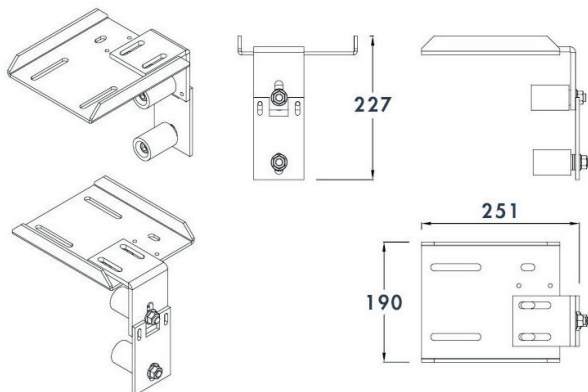
Wall bracket for operator

Art. no. 790401



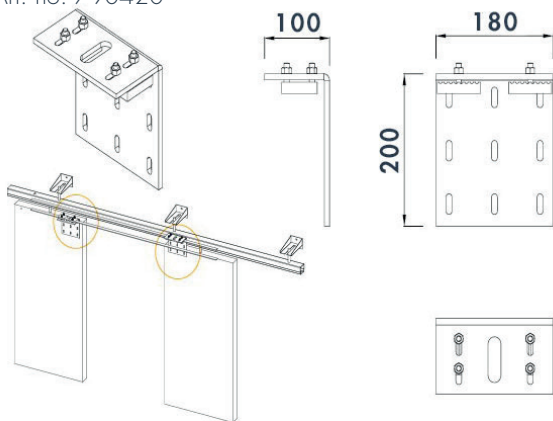
Supporting roller for 20/30 mm toothed belt

Art. no. 790410



Belt fixing device for 2nd leaf on double leaf doors (20/30 mm toothed belt)

Art. no. 790420



Toothed belt



Material	PU (polyurethane)
Tensile material	steel cord
Temperature range	-30° to +80 °C
Resistant against	UV, Ozone, oil & grease
Tension load	Toothed belt 30 mm wide: 4030 N

ORDER INFORMATION

Description	Part no.
DICTAMAT 900-21 ZLB 0.37 kW, starting power 1200 N	790250

ACCESSORIES

Description	Part no.
Wall bracket for DICTAMAT 900-21 0.18 kW or for idler pulley & support roller	790400
Wall bracket for DICTAMAT 900-21 0.37 kW	790401
Supporting roller for 20/30 mm toothed belt	790410
Door fixing device for second door leaf (toothed belt 20/30 mm)	790420
HTD 8M toothed belt, 30 mm wide, price per meter	710491
Mechanical cranking device for DICTAMAT 900-21, 0.37 kW, for toothed belt, incl. 8 m steel rope and limit switch	790551
Electromagnetic clutch for DICTAMAT 900-21, 0.37 kW, 24 V, 27 W, mounted opposite driving wheel	790501
Condenser package for electromagnetic clutch, for time lagging reaction of the clutch without current	790505
NT3 power pack, 24 VDC, 5 A, 120 W, with 1.5 m power cable with safety plug and 2 m power supply cable with 6-pin connector	710783