Product data sheet

Powerturn 1-leaf swing door drive system



Electromechanical swing door drive system for single leaf doors up to 600 kg

AREAS OF APPLICATION

- Single-action, single leaf, right and left closing doors
- Single-action doors up to 1600 mm leaf width or 600 kg weight
- Minimum leaf width 800 mm
- Interior and exterior doors with high access frequency
- Door leaf installation and transom installation

Powerturn 1-leaf swing door drive system

PRODUCT FEATURES

- Smart swing function for easy manual door opening
- Closing force of EN 4-7 with variable adjustment
- Opening and closing speed can be individually adjusted
- Mechanical latching action when operated without current, and electrical automatic unit latching action in regular operation, which accelerates the door shortly before it is closed
- Low-energy function opens and closes the door with reduced speed, fulfilling the highest safety demands
- Servo function for motorized support when manually opening the door
- Vestibule function controls the opening and closing of two consecutive doors (interlocking door system)
- Obstacle detection detects an object through contact and stops the opening or closing process
- Automatic reversing detects an obstacle and returns to the opening position
- Push & Go function triggers the automatic drive following light manual pressure on the door leaf
- Drive can be used with roller guide rail or link arm
- Optional radio reception board for wireless activation by radio transmitter
- Hold-open function can be activated by manually pulling the door leaf closed
- Reset of the hold-open system by manually opening the door leaf to an opening angle of 80° or changing the mode of operation

TECHNICAL DATA

Productname	Powerturn 1-leaf swing door drive system
Height	70 mm
Depth	130 mm
Length min.	720 mm
Leaf weight (max.) 1-leaf	600 kg
Distance centre door hinge-drive axis (min.-max.) 2-leaf, link arm	1600 mm - 3200 mm
Distance centre door hinge-drive axis (min.-max.) 2-leaf, roller guide rail	1600 mm - 3200 mm
Leaf width (min.-max.)	800 mm - 1600 mm
Reveal depth (max.)	560 mm
Drive type	Electromechanical
Opening angle (max.)	136 °
Spring pre-load	EN 4 - EN 7
DIN left	Yes
DIN right	Yes
Transom installation opposite hinge side with link arm	Yes
Transom installation opposite hinge side with roller guide rail	Yes
Transom installation hinge side with roller guide rail	Yes

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Door leaf installation opposite hinge side with roller guide rail	Yes
Door leaf installation hinge side with roller guide rail	Yes
Door leaf installation hinge side with link arm	Yes
Mechanical latching action	Yes
Electrical latching action	Yes
Disconnection from mains	Main switch in the drive
Activation delay (max.)	10 s
Operating voltage	230 V
Power rating	200 W
Power supply for external consumers (24 V DC)	1200 mA
Service temperature	-15 - 50 °C
IP rating	IP30
Mode of operation	Automatic, Permanently open, Shop closing, Night, Off
Type of function	Fully automatic
Automatic function	Yes
Low-energy function	Yes
function smart swing	Yes
Servo function	Yes
Key function	Yes
Obstacle detection	Yes
Automatic reversing	Yes
Push & Go	adjustable
Operation	Programme switch DPS, MPS programme switch, Programme switch integrated in the drive
Parameter setting	GEZEconnects (PC + Bluetooth), Service terminal ST 220, Programme switch DPS
CAN Bus interface optional	Yes
Standard conformity	DIN EN 16005
Smoke switch integrated	Yes

VARIANTS / ORDER INFO

Designation	Ident-No.	Supply voltage	Dimensions	Operating voltage	Leaf width (min.)
Powerturn 1-leaf swing door drive system	154920	230 V	70 x 130 mm	230 V	800 mm

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PART

GC GR FOR GC 338

Sensor roller guide rail Powerturn for GC 338 sensor strip



Designation	Description	Ident-No.	Colour	Dimensions	Type of installation
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157451	according to RAL	1200 mm	Transom installation hinge side
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157476	EV1	1500 mm	Transom installation opposite hinge side
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157477	according to RAL	1500 mm	Transom installation opposite hinge side
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157475	according to RAL	1200 mm	Transom installation opposite hinge side
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157472	EV1	1500 mm	Transom installation hinge side
GC GR for GC 338 Powerturn	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157450	EV1	1200 mm	Transom installation hinge side
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the opposite hinge side, lever length 450 mm	157474	EV1	1200 mm	Transom installation opposite hinge side
GC GR for GC 338 Powerturn *	For Powerturn / Powerturn F, installation on the hinge side, lever length 330 mm	157473	according to RAL	1500 mm	Transom installation hinge side

LINK ARM POWERTURN / POWERTURN F

For transom and door leaf installation with reveal depths up to 560 mm



Designation	Description	Ident-No.	Colour	Dimensions
Link arm Powerturn / Powerturn F	Length 245 mm for reveal depth; 20 mm to 160 mm with sensor link arm,; -30 mm to 110 mm without sensor link arm	154707	EV1	245 mm
Link arm Powerturn / Powerturn F *	Length 645 mm for reveal depth; 420 mm to 560 mm with sensor link arm,; 370 mm to 510 mm without sensor link arm	154721	according to RAL	645 mm
Link arm Powerturn / Powerturn F *	Length 245 mm for reveal depth; 20 mm to 160 mm with sensor link arm,; -30 mm to 110 mm without sensor link arm	154709	according to RAL	245 mm
Link arm Powerturn / Powerturn F	Length 445 mm for reveal depth; 220 mm to 360 mm with sensor link arm,; 170 mm to 310 mm without sensor link arm	154714	EV1	445 mm
Link arm Powerturn / Powerturn F	Length 545 mm for reveal depth; 320 mm to 460 mm with sensor link arm; 270 mm to 410 mm without sensor link arm	154717	EV1	545 mm

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Designation	Description	Ident-No.	Colour	Dimensions
Link arm Powerturn / Powerturn F *	Length 445 mm for reveal depth; 220 mm to 360 mm with sensor link arm,; 170 mm to 310 mm without sensor link arm	154715	according to RAL	445 mm
Link arm Powerturn / Powerturn F *	Length 545 mm for reveal depth; 320 mm to 460 mm with sensor link arm; 270 mm to 410 mm without sensor link arm	154718	according to RAL	545 mm
Link arm Powerturn / Powerturn F *	Length 645 mm for reveal depth; 420 mm to 560 mm with sensor link arm,; 370 mm to 510 mm without sensor link arm	154720	EV1	645 mm
Link arm Powerturn / Powerturn F	Length 215 mm for reveal depth, -10 mm to 130 mm with sensor link arm, -30 mm to 80 mm without sensor link arm	165818	EV1	215 mm
Link arm Powerturn / Powerturn F	Length 215 mm for reveal depth, -10 mm to 130 mm with sensor link arm, -30 mm to 80 mm without sensor link arm	159376	according to RAL	215 mm
Link arm Powerturn / Powerturn F *	Length 345 mm for reveal depth; 120 mm to 260 mm with sensor link arm,; 70 mm to 210 mm without sensor link arm	154712	according to RAL	345 mm
Link arm Powerturn / Powerturn F	Length 345 mm for reveal depth; 120 mm to 260 mm with sensor link arm,; 70 mm to 210 mm without sensor link arm	154711	EV1	345 mm

COVER POWERTURN

For the Powerturn swing door drive, including additional side panels and shaft covers painted with cover colour



Designation	Description	Ident-No.	Colour	Dimensions	Material
Cover Powerturn	Cover including end caps and shaft covers painted in the cover colour	161927	EV1	720 x 70 x 130 mm	Aluminum
Cover Powerturn	Cover including end caps and shaft covers painted in the cover colour	160326	according to RAL	720 x 70 x 130 mm	Aluminum

POWERTURN / POWERTURN F ROLLER GUIDE RAIL

For door leaf installation on the hinge side or opposite hinge side with roller guide rail



Designation	Description	Ident-No.	Colour	Dimensions	Type of installation
Roller guide rail Powerturn (F)	For door leaf installation opposite hinge side, length 738 mm, lever length 450 mm	153818	EV1	738 mm	Door leaf installation opposite hinge side
Roller guide rail Powerturn (F) *	For door leaf installation hinge side, length 738 mm, lever length 330 mm	153815	EV1	738 mm	Door leaf installation hinge side
Roller guide rail Powerturn (F) *	For door leaf installation hinge side, length 738 mm, lever length 330 mm	153816	according to RAL	738 mm	Door leaf installation hinge side
Roller guide rail Powerturn (F) *	For door leaf installation opposite hinge side, length 738 mm, lever length 450 mm	153819	according to RAL	738 mm	Door leaf installation opposite hinge side

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POWERTURN / POWERTURN F ROLLER GUIDE RAIL

For transom installation on the hinge side or opposite hinge side with roller guide rail



Designation	Description	Ident-No.	Colour	Dimensions	Type of installation
Roller guide rail Powerturn (F)	For transom installation opposite hinge side, length 691 mm, lever length 450 mm	153813	according to RAL	691 mm	Transom installation opposite hinge side
Roller guide rail Powerturn (F)	For transom installation opposite hinge side, length 691 mm, lever length 450 mm	153812	EV1	691 mm	Transom installation opposite hinge side
Roller guide rail Powerturn (F)	For transom installation hinge side, length 691 mm, lever length 330 mm	153790	according to RAL	691 mm	Transom installation hinge side
Roller guide rail Powerturn (F)	For transom installation hinge side, length 691 mm, lever length 330 mm	153787	EV1	691 mm	Transom installation hinge side

CONNECTOR PLUG POWERTURN / EMD 230 V

230 V connection and GEZE logo for the Powerturn / EMD



Designation	Description	Ident-No.	Colour
Connection Powerturn / EMD 230 V	Connector plug Powerturn / EMD	156890	black

POWERTURN DRIVE UNIT

Electromechanical swing door drive system for single leaf doors up to 600 kg



Designation	Description	Ident-No.	Supply voltage	Dimensions	Operating voltage
Powerturn drive unit	Electro-mechanical swing door drive for 1- and 2-leaf single-action doors	153065	230 V	720 x 70 x 130 mm	230 V

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POWERTURN F DRIVE UNIT

Electromechanical swing door drive system for single leaf fire and smoke protection doors



Designation	Description	Ident-No.	Supply voltage	Dimensions	Operating voltage
Powerturn F drive unit	Electromechanical swing door drive for 1- and 2-leaf single-action doors and fire protection doors (for 2-leaf fire protection doors in accordance with DIN EN 1158, IS mechanism available separately)	155162	230 V	720 x 70 x 130 mm	230 V

ACCESSORIES

COVER EXTENSION KIT FOR GEZE POWERTURN

For the Powerturn swing door drive, including additional side panels and mounting plate

Designation	Description	Ident-No.	Colour	Dimensions	IP rating
Cover extension kit for GEZE Powerturn *		157830		70 x 130 mm	IP30

SPINDLE EXTENSION POWERTURN

Available lengths 30 mm and 50 mm



Designation	Description	Ident-No.	Colour	Dimensions
Spindle extension Powerturn	V = 50 mm	153827	according to RAL	50 mm
Spindle extension Powerturn *	V = 30 mm	153824	according to RAL	30 mm
Spindle extension Powerturn	V = 50 mm	153826	EV1	50 mm
Spindle extension Powerturn	V = 30 mm	153822	EV1	30 mm

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* The products designated above may vary in form, type, characteristics, function, or availability depending on the country. Please get in touch with your GEZE contact person if you have any questions.