





Expert know-how in development and design

As the technological leader, *mayr*® power transmission focuses on continuous further development. Today, highly qualified engineers and technicians work on tomorrow's innovations using the most up-to-date tools. The many years of experience and countless tests in the Development and Testing Department at the Mauerstetten Headquarters form the basis of conscientious lifetime dimensioning.

The values upheld by our traditional, family-run company also include long-term stability and independence as well as a good reputation and satisfied customers.

Therefore, we place emphasis on:

- Tested product quality,
- Optimum customer service,
- Comprehensive know-how,
- Global presence,
- Successful innovations and
- Effective cost management

Tested quality and reliability

mayr® brakes and clutches/couplings are subject to meticulous quality inspections. These include quality assurance measures during the design process as well as a comprehensive final inspection. Only the best, tested quality leaves our place of manufacture. All products are rigorously tested on test stands, and adjusted precisely to the requested values. An electronic database in which the measured values are archived together with the associated serial numbers guarantees 100 % traceability. On request, we confirm the product characteristics with a test protocol.

The certification of our quality management according to DIN EN ISO 9001:2015 confirms the quality-consciousness of our colleagues at every level of the company.

Specialists in power transmission for more than a century

mayr® power transmission is one of the most traditional and yet most innovative companies in the field of power transmission. From modest beginnings in the year 1897, the family enterprise has developed to become the world market leader. Worldwide, the company employs approximately 1350 people.

An unsurpassed standard product range

mayr[®] power transmission offers an extensive range of variants of torque limiters, safety brakes, backlash-free shaft misalignment compensation couplings and high-quality DC drives. Numerous renowned machine manufacturers trust in solutions by *mayr*[®] power transmission.

Represented worldwide

With subsidiaries in Germany and Austria, sales offices in the USA, France, Great Britain, Italy, Singapore, Japan and Switzerland as well as 40 additional country representatives, *mayr*[®] is available in all important industrial areas, guaranteeing optimum customer service around the globe.

Never compromise on safety

We make no compromises where safety is concerned. Only top products of a perfect quality guarantee that no people are injured or machines damaged in case of malfunctions, collisions and other hazardous situations. The safety of your employees and machines is our motivation to always provide the best and most reliable clutches, couplings or brakes.

mayr® power transmission holds numerous ground-breaking patents, and is the global market or technological leader for

- application-optimised safety brakes, for example for passenger elevators, stage technology and gravity-loaded axes
- torque limiters to protect against expensive overload damage and production losses and
- backlash-free servo couplings.

Strongly positioned

mayr® sets standards in power transmission with economically viable solutions. For maximum competitiveness of your machines and systems, we always aim for the best possible cost efficiency, starting with the development of your clutch/coupling or brake, right up to delivery of the finished and inspected product. For cost-efficient production, our factories in Poland and China represent the perfect supplement to the headquarters in Germany. mayr® is currently setting up a branch in India.



mayr® headquarters in Mauerstetten



Subsidiary with Production — mayr® China



Subsidiary with Production — mayr® Poland



Maximum functional safety

ROBA®-guidestop safety brakes operate according to the fail-safe principle. Pre-tensioned cup springs press the brake shoes onto the "waistline" of the profiled rail. The brake mechanism is designed for relatively large stroke paths and compensates for production tolerances in profiled rails without loss of braking force.

Safety through direct clamping

ROBA®-guidestop safety brakes clamp directly onto the linear guide with an extremely high degree of rigidity. They are therefore directly mounted onto the masses which are to be braked or held. Drive elements between the motor and the moved mass, such as for example spindles, spindle nuts, shaft couplings or gears, can thus have no influence on safety.

Perfect for vertical axes

Direct clamping onto the linear guide predestines the ROBA®-guidestop for application in gravity-loaded axes where hazard risks for people are to be minimised.

High rigidity

ROBA®-guidestop safety brakes are more rigid than rod or band brakes by a factor of at least 3. Rotatory motor brakes withstand even less in comparison. They are usually subject to backlash, and furthermore every element between the brake and the carriage has a negative effect on rigidity.

Relief for spindle and guide

ROBA®-guidestop takes on the load when the axis is stationary, for example during machining. In this phase, the drive motor can be switched off and removed from the control. This eliminates the control movements and is thus gentle on the ball screw spindle. The closed brake absorbs the axial forces. The lifetimes and maintenance intervals for the drive components are therefore increased.

More accurate with higher cutting capacities

The backlash-free clamping additionally reinforces the NC axis. This increases process accuracy, increases the cutting capacities and provides advantages during heavy-duty machining. The machining generates less vibration and thus improves the surface quality of the workpiece.

Switching condition monitoring

An integrated proximity switch emits a signal every time the brake condition changes.



ROBA®-guidestop profiled rail brakes decelerate reliably and safely – Clamp rigidly and backlash-free

- maximum safety due to fail-safe principle
- ☐ Type 3840, 3850/3852/3854, power pack with two brake circuits for double holding force
- ☐ Type 3841, 3851/3853/3855, cost-efficient solution for limited installation space
- safety and reliability thanks to direct, backlash-free clamping
- ☐ high degree of rigidity up to the full nominal holding force
- extremely high holding forces
- designed for standard linear guides
- with switching condition monitoring

Hydraulically actuated

Standard or short design



ROBA®-guidestop hydraulic

Type 384⁰/₁.0____

Clamps a profiled rail via a spring-loaded device at the exact position required and backlash-free. EMERGEN-CY STOP braking possible.

Please observe profiled rail requirements!

Nominal holding force: 5000 – 34000 N Opening of the brake with 70 – 100 bar

For data and description, please see pages 6 - 9.

Pneumatically actuated

Standard or short design



ROBA®-guidestop pneumatic

Type 385⁴/₅.0____

Clamps a profiled rail via a spring-loaded device at the exact position required and backlash-free. EMERGEN-CY STOP braking possible.

Please observe profiled rail requirements!

Type 385⁴/₅.1____

Clamps and brakes a profiled rail via a spring-loaded device at the exact position required and backlash-free. At least 2000 dynamic braking actions possible.

Nominal holding force: 700 – 12000 N Opening of the brake with 4, 5 or 6 bar.

For data and description, please see pages 10 - 13

Pneumatically actuated with a pressure of 20 bar

2 brake circuits or short design

 with comparable nominal holding force as the hydraulic series

ROBA®-guidestop pneumatic

Type 385²/₃.0____

Clamps a profiled rail via a spring-loaded device at the exact position required and backlash-free. EMERGEN-CY STOP braking possible.

Please observe profiled rail requirements!

Nominal holding force: 2750 – 15000 N Opening of the brake with 20 – 28 bar.

For data and description, please see pages 14 - 17.

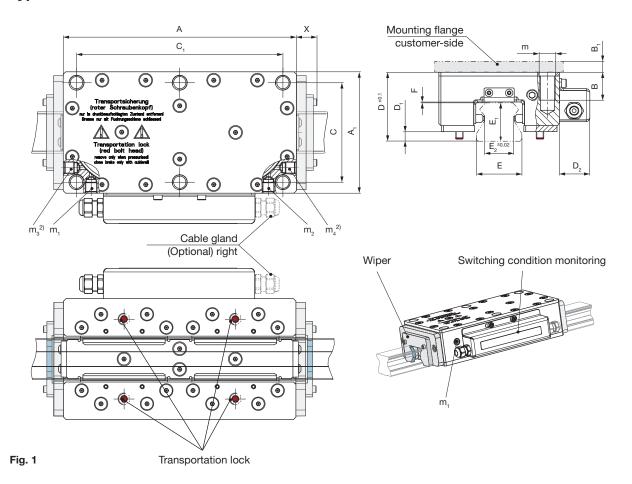
For control with a pressure of 20 bar

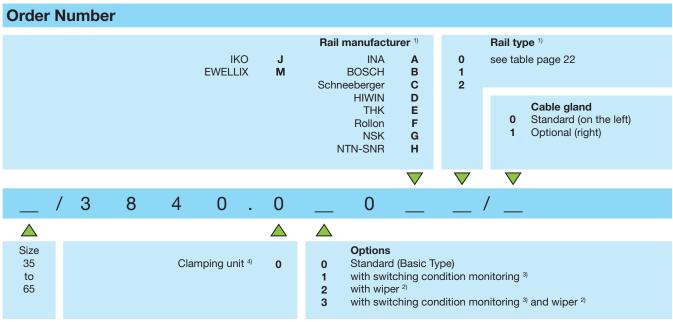
Pressure booster for ROBA®-guidestop Type 3880

For data and description, please see pages 20 - 22.

ROBA®-guidestop hydraulic

Type 3840.__0__





Example: Order number 45 / 3840.010A1 / 0

- 1) For other rail manufacturers and rail types, please contact $\textit{mayr}^{\text{\tiny{\$}}}$ power transmission.
- 2) With a wiper, connections m_3 and m_4 can no longer be used.
- 3) 2 proximity switches are installed
- 4) Possible operating modes: Please observe page 23

Technical Data			Size				
Technical Data			35	45	55	65	
Nominal holding force F ^{2) 3)}		[N]	10000	15000	20000	34000	
Nominal holding force F -7-7	Tolerance	Type 3840.0		0 % / +	-150 %		
Weight		[kg]	6	9	16	27	
Operating pressure	min.	[bar]	70	70	70	85	
Operating pressure	max.	[bar]	90	90	90	100	
Rigidity		[N/µm]	380	490	860	1000	
Hydraulic connection thread	m ₁	, m ₂ , m ₃ , m ₄	1/8"				
Pressure Medium	Use hydraulic oil acc. DIN 51524-1:2006-04			-04			
Absorption volume		[cm ^{3]}	14	21	34	48	
Ambient Temperature	[°C] -10 to +60						

- 2) The dimensioning as a redundant dual circuit brake (optional) may only be implemented with half of the nominal holding force.

 3) Minimum holding force when the brake is not pressurised and when the profiled rail is dry or moistened with mineral oil.

Dimensions	Size							
[mm]	35	45	55	65				
Α	192	225	270	325				
A ₁	100	120	140	170				
В	21.7	27.7	35.7	43				
B ₁ ⁴⁾	10	15	25	35				
С	82	96	110	134				
C ₁	170	196	240	288				
$D_{\!\scriptscriptstyle 2}$	25	25	25	25				
E	34	45	53	63				
m ⁵⁾	6 x M12	6 x M16	6 x M20	6 x M24				
X		Dimension depends or	n the rail manufacturer					

- 4) Required minimum thickness of the customer-side mounting flange (Steel) 5) Tapped hole

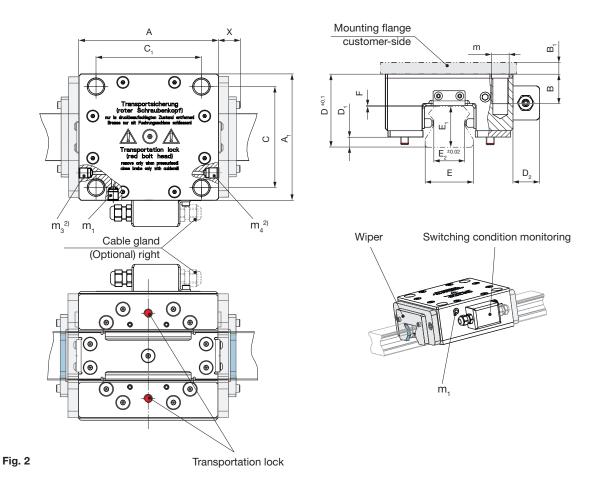
Dimensions [n	nm]	
Rail manufacturer	Rail type	For details see page 22

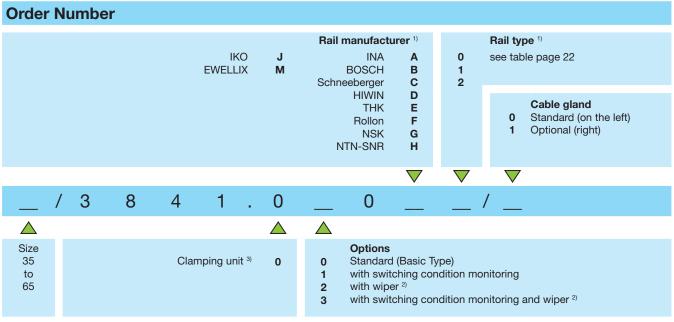
For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.



ROBA®-guidestop short design, hydraulic

Type 3841.__0__





Example: Order number 45 / 3841.010A1 / 0

- 1) For other rail manufacturers and rail types, please contact mayr® power transmission.
- With a wiper, connections m₃ and m₄ can no longer be used.
 Possible operating modes: Please observe page 23

Technical Data				Size				
rechnical Data			35	45	55	65		
Nominal holding force F 2)		[N]	5000	7500	10000	17000		
Nominal holding force F	Tolerance	Type 3841.0_0		0 % / +	-150 %			
Weight		[kg]	3.5	5.5	9	16		
Operating procesure	min.	[bar]	70	70	70	85		
Operating pressure	max.	[bar]	90	90	90	100		
Rigidity		[N/µm]	180	245	430	500		
Hydraulic connection thread	1	m ₁ , m ₃ , m ₄	1/8"					
Pressure Medium			Use hydraulic oil acc. DIN 51524-1:2006-04			-04		
Absorption volume		[cm ^{3]}	7	10.5	17	24		
Ambient Temperature		[°C]		-10 to	o +60			

2) Minimum holding force when the brake is not pressurised and when the profiled rail is dry or moistened with mineral oil.

Dimensions	Size						
[mm]	35	45	55	65			
Α	115	130	155	190			
A ₁	100	120	140	170			
В	21.7	27.7	35.7	43			
B ₁ ³⁾	10	15	25	35			
С	82	96	110	134			
C ₁	92	98	125	152			
$D_{\!\scriptscriptstyle 2}$	25	25	25	25			
E	34	45	53	63			
m ⁴⁾	4 x M12	4 x M16	4 x M20	4 x M24			
X		Dimension depends or	n the rail manufacturer				

³⁾ Required minimum thickness of the customer-side mounting flange (Steel) 4) Tapped hole

Dimensions [n	nm]	
Rail manufacturer	Rail type	For details see page 22

For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.



ROBA®-guidestop Standard, pneumatic

Type 3854.____ Sizes 25 – 65

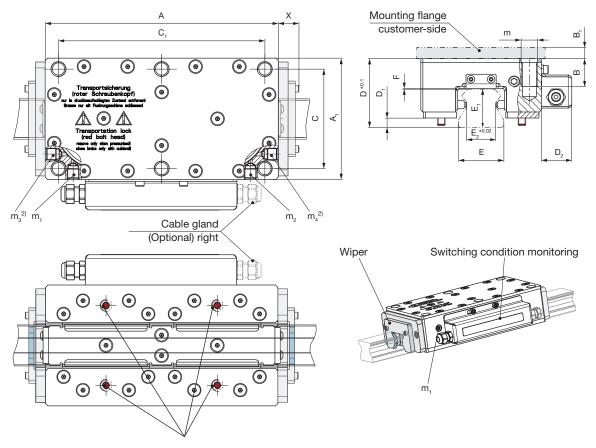
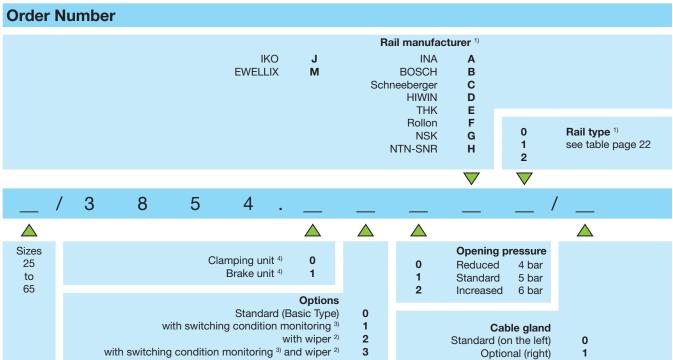


Fig. 3 Transportation lock



Example: Order number 45 / 3854.000A1 / 0

- For other rail manufacturers and rail types, please contact mayr® power transmission.
- With a wiper, connections m₃ and m₄ can no longer be used.
- 3) 2 proximity switches are installed
- 4) Possible operating modes: Please observe page 23

Technical Data			Size					
Technical Data			25	30	35	45	55	65
	4 bar	Type 38540	1400	2000	2800	4000	6000	8000
Nominal holding force 3) 4)	5 bar	Type 38541	1700	2700	4400	5000	7000	10000
F _N [N]	6 bar	Type 38542	2200	3500	-	6000	9000	12000
	Tolerance Type 3854				0 % / +	-150 %		
Weight	[kg]		2.4	4.5	5.4	9	14.5	26.7
Max. Operating pressure	[bar]		8					
Rigidity	[N/µm]		200	250	380	490	860	1000
Pneumatic connection thread	m ₁ , m ₂ ,	m ₃ , m ₄	M5	1/8"	1/8"	1/8"	1/8"	1/8"
Air consumption per		Type 38540	0.063	0.101	0.120	0.179	0.241	0.340
switching procedure in	[NL]	Type 38541	0.079	0.126	0.150	0.224	0.301	0.420
standard litres at opening pressure		Type 38542	0.095	0.151	0.180	0.269	0.361	0.500
Pressure Medium			Compress	ed air with co	mpressed air	quality acc.	ISO 8573-1 (Class 7:4:4
Ambient Temperature	[°C]				-10 to	o +60		

³⁾ The dimensioning as a redundant dual circuit brake (optional) may only be implemented with half of the nominal holding force.
4) Minimum holding force when the brake is not pressurised and when the profiled rail is dry or moistened with mineral oil

Dimensions	Size					
[mm]	25	30	35	45	55	65
Α	145	182	192	225	270	325
A ₁	70	90	100	120	140	170
В	14.7	21.7	21.7	27.7	35.7	43
B ₁ ⁶⁾	10	10	10	15	25	35
С	58	72	82	96	110	134
C ₁	132	164	170	196	240	288
$D_{\!\scriptscriptstyle 2}$	25	25	25	25	25	25
E	23	28	34	45	53	63
m ⁷⁾	6 x M8	6 x M10	6 x M12	6 x M16	6 x M20	6 x M24
X		Dimension depends on the rail manufacturer				

⁶⁾ Required minimum thickness of the customer-side mounting flange (Steel)

⁷⁾ Tapped hole

Dimensions [n	nm]	
Rail manufacturer	Rail type	For details see page 22

For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.



ROBA®-guidestop Standard short design, pneumatic

Type 3855.____ Größe 25 - 65

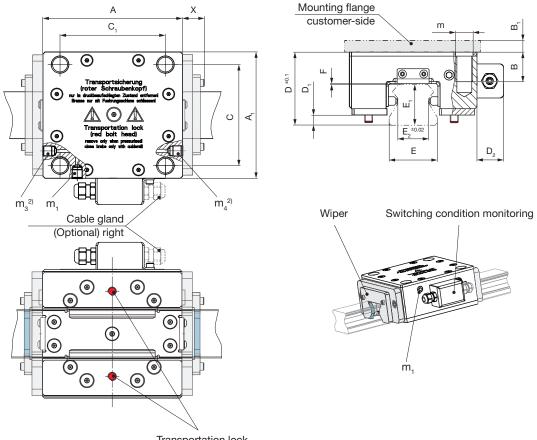
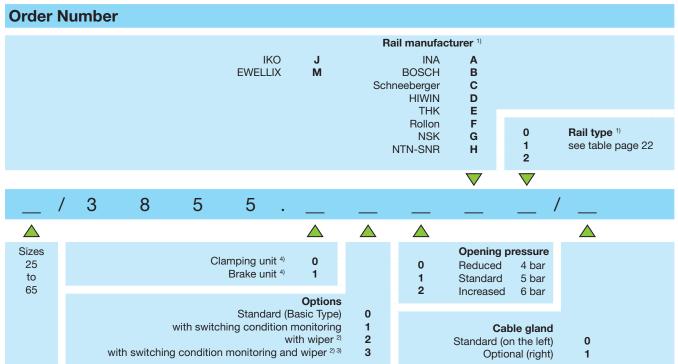


Fig. 4 Transportation lock



Example: Order number 45 / 3855.000A1 / 0

- 1) For other rail manufacturers and rail types, please contact *mayr*® power transmission
- 2) With a wiper, connections m₃ and m₄ can no longer be used.
- 3) With wiper and switching condition monitoring, for Sizes 25, 30, 45 the cable gland is only possible on the right.
- 4) Possible operating modes: Please observe page 23



Technical Data					Si	ze		
recrimical Data			25	30	35	45	55	65
	4 bar	Type 38550	700	1000	1400	2000	3000	4000
Nominal holding force 3)	5 bar	Type 38551	850	1350	2200	2500	3500	5000
F _N [N]	6 bar	Type 38552	1100	1750	-	3000	4500	6000
	Tolerand	ceType 3855			0 % / +	-150 %		
Weight	[kg]		1.5	2.6	3.3	5.1	8.4	15.6
Max. Operating pressure	[bar]				8	3		
Rigidity	[N/µm]		100	160	190	245	430	500
Pneumatic connection thread	m ₁ , m ₃ ,	m ₄	M5	1/8"	1/8"	1/8"	1/8"	1/8"
Air consumption per		Type 38550	0.032	0.050	0.060	0.090	0.120	0.170
switching procedure in	[NL]	Type 38551	0.039	0.063	0.075	0.112	0.151	0.210
standard litres at opening pressure		Type 38552	0.047	0.075	0.090	0.135	0.181	0.250
Pressure Medium			Compress	ed air with co	mpressed ai	r quality acc.	ISO 8573-1 (Class 7:4:4
Ambient Temperature	[°C]				-10 to	o +60		

³⁾ Minimum holding force when the brake is not pressurised and when the profiled rail is dry or moistened with mineral oil

Dimensions	Size							
[mm]	25	30	35	45	55	65		
Α	88	104	115	130	155	190		
A ₁	70	90	100	120	140	170		
В	14.7	20	21.7	27.7	35.7	43		
B ₁ ⁵⁾	10	10	10	15	25	35		
С	58	72	82	96	110	134		
C ₁	75	86	92	98	125	152		
$D_{\!\scriptscriptstyle 2}$	25	25	25	25	25	25		
E	23	28	34	45	53	63		
m ⁶⁾	4 x M8	4 x M10	4 x M12	4 x M16	4 x M20	4 x M24		
X		Di	mension depends o	n the rail manufactur	er			

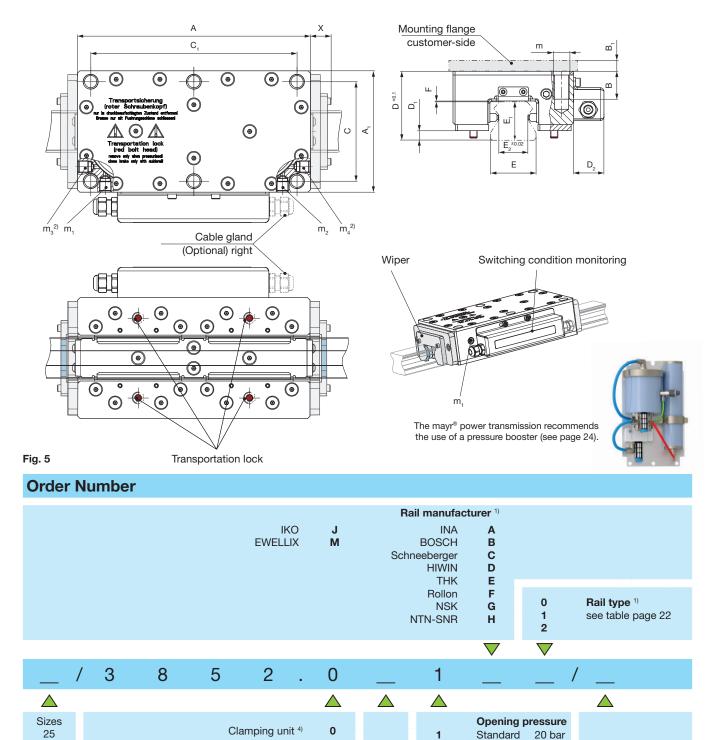
⁵⁾ Required minimum thickness of the customer-side mounting flange (Steel) 6) Tapped hole

Dimensions [n	nm]	
Rail manufacturer	Rail type	For details see page 22

For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.

ROBA®-guidestop high pressure, pneumatic

Type 3852.__1_



Options

with wiper 2)

0

2

Standard (Basic Type)

with switching condition monitoring 3)

with switching condition monitoring 3) and wiper 2)

Example: Order number 45 / 3852.001A1 / 0

- For other rail manufacturers and rail types, please contact mayr[®] power transmission.
- 2) With a wiper, connections m₃ and m₄ can no longer be used.
- 3) 2 proximity switches are installed
- 4) Possible operating modes: Please observe page 23

Cable gland

Optional (right)

0

Standard (on the left)

to 45

Technical Data			Size					
Technical Data		25	35	45				
Nominal holding force 3) 4) 5)	20 bar Type 3852.0_1	5500	10000	15000				
F _N [N]	Tolerance Type 3852.0_1	0 % / +150 %						
Weight	[kg]	2.4	5.4	9				
Operating pressure	[bar]		20 - 28					
Rigidity	[N/µm]	200	380	490				
Pneumatic connection thread	m ₁ , m ₂ , m ₃ , m ₄	M5	1/8"	1/8"				
Air consumption per switching procedure in standard litres at opening pressure	[NL]	0.31	0.600	0.897				
Pressure Medium		Compressed air with co	ompressed air quality acc.	ISO 8573-1 Class 7:4:4				
Ambient Temperature	[°C]		-10 to +60					

- 3) The dimensioning as a redundant dual circuit brake (optional) may only be implemented with half of the nominal holding force.
 4) Minimum holding force when the brake is not pressurised and when the profiled rail is dry or moistened with mineral oil
 5) At a switching frequency > 200.000, please reckon with a nominal holding force reduction of 20 %. The lower tolerance value must be considered here.

Dimensions		Size							
[mm]	25	35	45						
Α	145	192	225						
A ₁	70	100	120						
В	14.7	21.7	27.7						
B ₁ ⁶⁾	10	10	15						
С	58	82	96						
C ₁	132	170	196						
$D_{\!\scriptscriptstyle 2}$	25	25	25						
E	23	34	45						
m 7)	6 x M8	6 x M12	6 x M16						
Х	Dimension depends on the rail manufacturer								

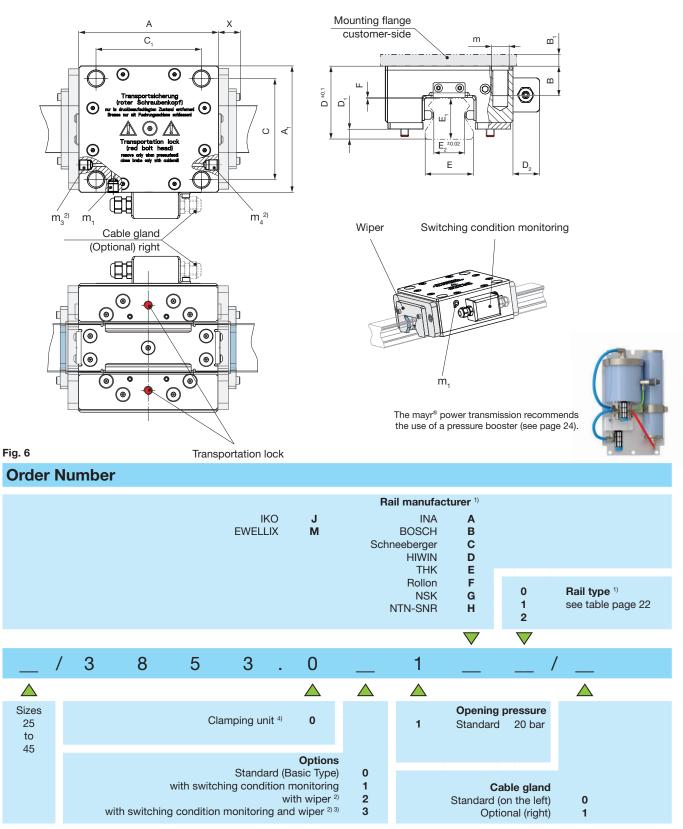
- 6) Required minimum thickness of the customer-side mounting flange (Steel)
- 7) Tapped hole

Dimensions [n	nm]	
Rail manufacturer	Rail type	For details see page 22

For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.

ROBA®-guidestop high pressure short design, pneumatic

Type 3853.__1_



Example: Order number 45 / 3853.001A1 / 0

- 1) For other rail manufacturers and rail types, please contact *mayr*® power transmission
- 2) With a wiper, connections $m_{_{\! 3}}$ and $m_{_{\! 4}}$ can no longer be used.
- 3) With wiper and switching condition monitoring, for sizes 25, 45 the cable gland is only possible on the right.
- 4) Possible operating modes: Please observe page 23

Technical Data			Size					
rechnical Data		25	35	45				
Nominal holding force 3) 4)	20 bar Type 3853.0_1	2750	5000	7500				
F _N [N]	ToleranceType 3853.0_1	0 % / +150 %						
Weight	[kg]	1.5	3.3	5.1				
Operating pressure	[bar]		20 - 28					
Rigidity	[N/µm]	100	190	245				
Pneumatic connection thread	m ₁ , m ₃ , m ₄	M5	1/8"	1/8"				
Air consumption per switching procedure in standard litres at opening pressure	[NL]	0.158	0.300	0.448				
Pressure Medium		Compressed air with co	ompressed air quality acc.	ISO 8573-1 Class 7:4:4				
Ambient Temperature	[°C]		-10 to +60					

³⁾ Minimum holding force when the brake is not pressurised and when the profiled rail is dry or moistened with mineral oil

⁴⁾ At a switching frequency > 200.000, please reckon with a nominal holding force reduction of 20 %. The lower tolerance value must be considered here.

Dimensions		Size							
[mm]	25	35	45						
Α	88	115	130						
A ₁	70	100	120						
В	14.7	21.7	27.7						
B ₁ ⁵⁾	10	10	15						
С	58	82	96						
C ₁	75	92	98						
$D_{\!\scriptscriptstyle 2}$	25	25	25						
E	23	34	45						
m ⁶⁾	4 x M8	4 x M12	4 x M16						
Х	Dimension depends on the rail manufacturer								

⁵⁾ Required minimum thickness of the customer-side mounting flange (Steel)

Dimensions [n	nm]	
Rail manufacturer	Rail type	For details see page 22

For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.

⁶⁾ Tapped hole

Profiled rail

Dimensions Profiled Rail

Dimensions	[m	ım]								Size								
Rail			Rail type			25					30				35				
manufacturer	er				E ₂	D	D ₁	F	E,	E ₂	D	D ₁	F	E,	E ₂	D	D ₁	F	
		0	TSX-E	22.3	14.6	44.3	5.1	1		not	availa	ıble		30	21.5	57	7	1	
INA	Α	1	TKSD	21.7	16	43.7	4.5	1	25	19.94	54	4	3.5	29.7	24.75	56.7	6.7	1	
		2	TKVD	18.7	14.5	43.7	4.5	4	23.5	19.15	54	4	5.0	27	22.15	56	6	3	
		0	R1805/6/7, R1845/6/7	23.4	13	45.4	6.2	1		not	availa	ıble		30.8	21	57.8	7.8	1	
Bosch	В	1	R1605/6/7, R1645/7, R2045/7	24.2	13.8	46.2	7.0	1	28.4	18	54.9	4.9	1	31.9	23.5	58.9	8.9	1	
Schneeberger	С	0	MR	24.5	15	46.5	7.3	1		not	availa	ıble		32.0	20.95	59	9	1	
		0	RG	23.6	14.7	45.6	6.4	1	28	17	54.5	4.5	1	30.2	22	57.2	7.2	1	
HIWIN	D	1	HG	22.0	15.8	44.0	4.8	1		not available			29	23.8	56.0	6.0	1		
		2	CG ¹⁾	24.2	13.8	46.2	7.0	1	28.4	18	54.9	4.9	1	31.8	23.5	58.8	8.8	1	
тнк	Е	0	SRG	23.0	15	45.0	5.8	1	26	18.8	54	4.0	2.5	30	23	57	7.0	1	
THE	_	1	SHS	20.0	17.6	42.5	3.3	1.5		not	availa	ıble		26	27	54.5	4.5	2.5	
Rollon	F	0	MR	22.0	16	44.0	4.8	1	26	19.2	54.1	4.1	2.6	29	25	56	6	1	
NSK	G	0	RA	24.0	13	46.0	6.8	1	28	16	54.5	4.5	1	31	21.4	58	8	1	
NTN-SNR	Н	0	BG/LGB	19.2	17.6	42.2	3.0	2		not	availa	ble		26	27	54.5	4.5	2.5	
IKO	J	0	LRX/MX	24.5	13.8	46.5	7.3	1	28	17.6	54.5	4.5	1	32	20	59	9	1	
EWELLIX	B.A	0	LLU	24.3	15	46.3	7.1	1		not	availa	ble		32	21	59	9	1	
CAAETTIV	М	1	LLR	24.2	13.8	46.2	7.0	1	28.4	20.5	54.9	4.9	1	31.8	23.5	58.8	8.8	1	
Other rail manufa	act	ure	rs and rail types on reque	est															

Dimensions	[m	ım	n]								Size							
Rail			Rail type			45					55					65		
manufacturer	turer				E ₂	D	D ₁	F	E,	E ₂	D	D ₁	F	E,	E ₂	D	D ₁	F
		0	TSX-E	38	27	68.5	9.5	1	45	31.8	83.8	11.5	1	53.8	38.2	97.5	10.8	1
INA	Α	1	TKSD	37.2	34.35	67.7	8.7	1		not	availa	ıble			no	t availa	ıble	
		2	TKVD	34.2	29.6	67.2	8.2	3.5	41.5	35.8	85.0	12.7	5.7		no	t availa	ıble	
		0	R1805/6/7, R1845/6/7	38.8	25	69.3	10.3	1	47.6	31	86.4	14.1	1	57.9	36.2	101.6	14.9	1
Bosch	В	1	R1605/6/7, R1645/7, R2045/7	39.9	29	70.4	11.4	1	47.9	34.6	86.7	14.4	1	59.9	40	103.6	16.8	1
Schneeberger	С	0	MR	40	29	70.5	11.5	1	48	35	86.8	14.5	1	58	43	101.7	15	1
		0	RG	38	30	68.5	9.5	1	44	38	82.8	10.5	1	53	44	96.7	10	1
HIWIN	D	1	HG		not	availa	ble			not	availa	vailable			not available			
		2	CG ¹⁾	39.8	30	70.3	11.3	1	not available					not available				
THK	E	0	SRG	37	32	69	10	2.5	43	38	81.8	9.5	1	54	45	99.2	12.5	2.5
THIC	_	1	SHS	32	37.5	64	5	2.5	38	43	78	5.7	2.2	53	49	96.7	10	1
Rollon	F	0	MR	38	34	68.5	9.5	1	38	43	78.8	6.5	3		no	t availa	ıble	
NSK	G	0	RA	38	28.5	68.5	9.5	1	43.5	30.8	83.5	11.2	2.2	55	36	100.2	13.2	2.5
NTN-SNR	Н	0	BG/LGB	31.1	37.5	63.6	4.6	3	38	43	78	5.7	2.2		not available			
IKO	J	0	LRX/MX	38	28	68.5	9.5	1	43	32	81.8	9.5	1	56	40	99.7	13	1
EWELLIX	М	0	LLU	39.8	29	70.3	11.3	1	47.8	35	86.6	14.3	1	55	43	99.7	13	2
CAAETTIV	IVI	1	LLR	39.8	29	70.3	11.3	1		not	availa	ıble		not available				
Other rail manufa	act	ure	ers and rail types on reque	est														

For detailed information on selection, dimensioning, installation, initial operation and maintenance, please see the Installation and Operational Instructions.

We reserve the right to make dimensional and constructional alterations.

1) Only for Type 3854 / 3855

Profiled rail

Clamping unit

Type 380 cla	mp	ing	g unit			S	ize		
Rail manufacturer			Rail type	25	30	35	45	55	65
		0	TSX-E						
INA	Α	1	TKSD						
		2	TKVD						
		0	R1805/6/7, R1845/6/7						
Bosch	В	1	R1605/6/7, R1645/7,						
		'	R2045/7						
Schneeberger	С	0	MR						
		0	RG						
HIWIN	D	1	HG						
		2	CG						
THK	Е	0	SRG						
		1	SHS						
Rollon	F	0	MR						
NSK	G		RA						
NTN-SNR	Н	0	BG/LGB						
IKO	J	0	LRX/MX						
EWELLIX	М	0	LLU						
	IVI	1	LLR						

Possible operating modes:

•	Static clamping
•	Sporadic EMERGENCY
	STOP brakings
•	Static clamping
→	no dynamic braking /
	EMERGENCY STOP
	possible

Brake unit

Type 381 brai	ke	un	it	Size							
Rail manufacturer			Rail type	25	30	35	45	55	65		
INA	Α	0 1 2	TSX-E TKSD TKVD								
Bosch		0	R1805/6/7, R1845/6/7 R1605/6/7, R1645/7, R2045/7								
Schneeberger	С	0	MR								
HIWIN	D	0 1 2	RG HG CG								
THK	Ε	0	SRG SHS								
Rollon	F	0	MR								
NSK	G	0	RA								
NTN-SNR	Н	0	BG/LGB								
IKO	J	0	LRX/MX								
EWELLIX	M	0	LLU LLR								

Possible operating modes:

•	Static clamping
•	Dynamic braking
•	Sporadic EMERGENCY
	STOP brakings

Profiled rail requirements

 $\it mayr^{\rm e}$ power transmission recommends the use of profiled rails from approved rail manufacturers.

When using other profiled rails the following applies:

The second care because and the second of the second				
Tolerance thickness	±0.02 mm			
Hardness	at least HRC 55			
Surface quality	Ra <0.8 µm			
Yield point	≥400 N/mm² (z. B. C45)			
Evenness	≤0.01 mm			
Straightness	≤0.01 mm			

Table: Profiled rail requirements

Friction value reducing residues on the profiled rail must be avoided.

Danger of load crashes.



Pressure booster for ROBA®-guidestop high pressure, pneumatic

Highlights and Advantages

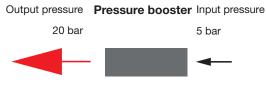
In the majority of cases, the available pressure in the compressed air system is not sufficient to operate the ROBA®-guidestop Type 3852/3853 with a pressure of 20 bar. One option is a general increase of system pressure which, however, results in high expenses and energy costs. A solution to this problem is the use of a pressure booster at exactly the location in the system where the increased pressure is required.

The pressure booster pneumatically increases the pressure available in the system to the required operating pressure of the ROBA®-guidestop in a purely mechanical way and without external use of power.

- ☐ Specific pressure increase in front of the individual
- □ No energy consumption after reaching the output pressure
- □ No electrical installation necessary
- ☐ Simple, safe and economic operating mode
- □ No need to invest in a high pressure grid of your own or in a decentralized separate compressor unit

Pressure booster - Designs:

- ☐ Pressure booster on plate ready to connect
- Pressure booster in housing ready to connect (noise reduced 65 dB(A))



Principle picture: Pressure increase



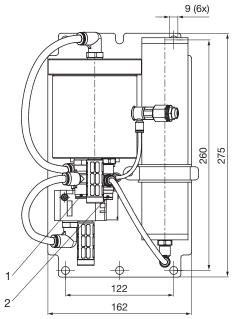
Fig. 7: Pressure booster on the plate



Fig. 8: Pressure booster in the housing

Pressure booster for ROBA®-guidestop high pressure, pneumatic

Type 3880._0000



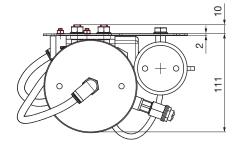


Fig. 9: Type 3880.00000

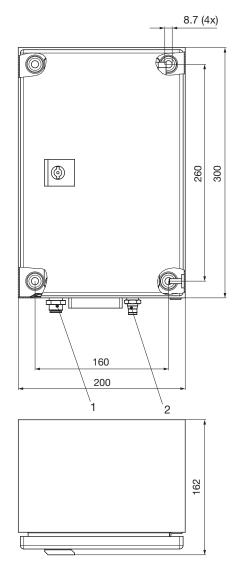
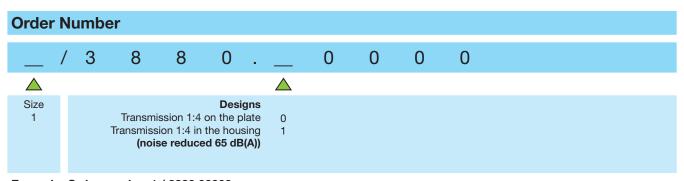


Fig. 10: Type 3880.10000

Item	Name
1	Connection input pressure
2	Connection output pressure



Example: Order number 1 / 3880.00000

Technical Data			Size			
			1			
Weight	Type 3880.00000	[kg]	9.3			
Weight	Type 3880.10000	[kg]	14.5			
Input pressure	max.	[bar]	7			
Output pressure max.		[bar]	28			
Transmission ratio			1:4			
Connection input pressure Connection output pressure Connection Outer diameter Ø hose			8 mm			
			6 mm			
Pressure Medium			Compressed air quality acc. ISO 8573-1 Class 7:4:4			
Storage volume		[L]	0.3			
Ambient Temperature		[°C]	-10 to +50			
Flow rate		[L/min]	1.2			

Technical Explanations

State of Delivery

The **Pressure booster** is ready for installation. For operation, the Pressure booster must be connected with the **ROBA®-guidestop** using a 3/2-directional control valve and a hose.

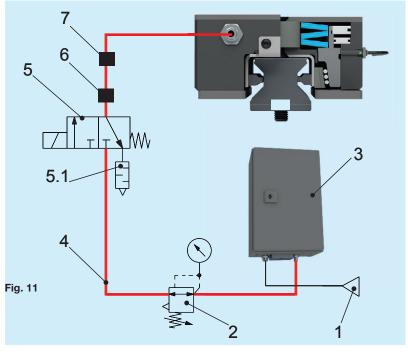
Number of Brakes per Pressure Booster

Number of attachable brakes by size and type for a max. opening time of 1 second.

	Number of brakes 1)				
Size	3852 3853				
25	2	4			
35	2	4			
45	1	2			

1) Installing several brakes as stated in the Table is possible. As a result, the max. opening time increases.

Controls (Fig. 11)



Item	Name		
1	Pressure source		
2	Pressure regulator valve with pressure gauge (installation in the feed line also possible)		
3	Pressure booster		
4	Hose for high pressure		
5	3/2-directional control valve high pressure (installation as near to the brake as possible)		
5.1	Silencer		
6	Pressure switch: Switching point <0.5 bar (brake closed) • Brake must not be pressurised		
7	Pressure switch: Min. Operating pressure (brake opened) • Minimum operating pressure must be used □ In case of pressure fluctuations □ In case of pressure drop e.g. leakages		



The pressure booster for the ROBA®-guidestop must have an external connection with the brake ensured via a 3/2-directional control valve.

For connection components recommended by mayr® power transmission (3/2-directional control valve, hose, etc.), please contact mayr® power transmission.

Before initial operation, please read and observe the respective Installation and Operational Instructions.

ROBA®-guidestop hydraulic

Technical Explanations

State of Delivery

ROBA®-guidestop brakes are manufacturer-assembled ready for installation and set to the nominal holding force stipulated in the order

Before initial operation, please read and observe the respective Installation and Operational Instructions.

Role

The spring-loaded, enclosed ROBA®-guidestop (Type 384_.0_0_ _), which can be opened hydraulically, clamps a profiled rail steplessly and backlash-free.

Due to the spring-loaded system, the fail-safe principle is guaranteed, and the **ROBA®-guidestop** works as a safety brake. For the required operating pressure, please see Table "Technical Data".

The max. sliding speed is 2 m/s.

Maintenance/Switching Frequency

The ROBA®-guidestop is designed for a switching frequency of 200,000 switchings (higher switching frequencies available on request).

The ROBA®-guidestop is largely maintenance-free.

The profiled rail must be checked regularly (at least every 6 months) for contamination with friction value-reducing materials; it must be cleaned, if necessary.

In case of major accumulation of dust and dirt, or in extreme ambient conditions, special maintenance work is required.

(Please contact mayr® power transmission).

Options

Screw connection from below

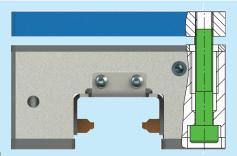


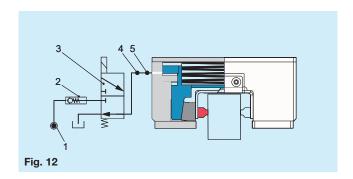
Fig. 13

Controls (Fig. 12)

The company *mayr**power transmission recommends hydraulic controls as shown in Fig. 10. During every operational movement of the profiled rail, the 3/2-way valve is electrically switched and the brake opened.

Recommendation:

- Pressure fluctuations can be reduced through a non-return
 valve
- In order to guarantee fastest possible switching of the brake, the largest possible line diameter should be used in the area of the return flow line. Furthermore, do not install any choke valves in this area and keep the hydraulic lines between the brake and the valve as short as possible!



Item	Name			
1	Pressure source			
2	Non-return valve (in case of pressure fluctuations)			
3	3/2-directional control valve			
4	Pressure switch: Switching point <0.5 bar (brake closed) • Brake must not be pressurised			
Pressure switch: Min. Operating pressure (brak opened) • Minimum operating pressure must be used In case of pressure fluctuations In case of pressure drop e.g. leakages				

Hydraulic connection, top (Type 3840)

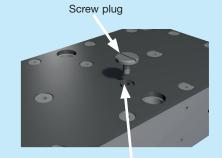
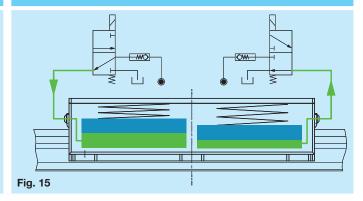


Fig. 14 Connection, top

Redundant design (dual circuit brake)





ROBA®-guidestop pneumatic

Technical Explanations

State of Delivery

ROBA®-guidestop brakes are manufacturer-assembled ready for installation and set to the nominal holding force stipulated in the order

Before initial operation, please read and observe the respective Installation and Operational Instructions.

Role

The spring-loaded, enclosed ROBA®-guidestop (Type 385_.0___), which can be opened pneumatically, clamps a profiled rail steplessly and backlash-free.

The ROBA®-guidestop (Type 385_.1_ _ _ _), which can be opened hydraulically, clamps and brakes a profiled rail steplessly and backlash-free.

Due to the spring-loaded system, the fail-safe principle is guaranteed, and the **ROBA®-guidestop** works as a safety brake. For the required operating pressure, please see Table "Technical Data".

The max. sliding speed is 2 m/s.

Maintenance/Switching Frequency

The ROBA®-guidestop (Type $385^4/_5$) is designed for a switching frequency of 2,000,000 switchings (higher switching frequencies available on request).

The ROBA®-guidestop (Type 385²/₃) is designed for a switching frequency of 200,000 switchings (higher switching frequencies available on request).

The ROBA®-guidestop is largely maintenance-free.

The profiled rail must be checked regularly (at least every 6 months) for contamination with friction value-reducing materials; it must be cleaned, if necessary.

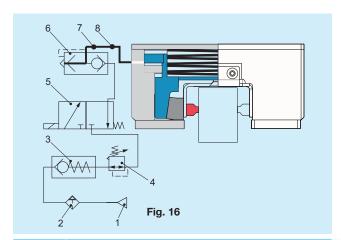
In case of major accumulation of dust and dirt, or in extreme ambient conditions, special maintenance work is required.

(Please contact mayr® power transmission).

Controls (Fig. 16)

The piston space is filled with compressed air, thus suspending the spring force. In case of power failure, the compressed air in the piston space is diverted by the 3/2-directional control valve. The spring force has an effect on the clamping element. The profiled rail clamps/ brakes reliable and safely.

The mayr® power transmission recommends the following pneumatic control units.



Item	Name			
1	Pressure source			
2	Maintenance unit			
3	Non-return valve (in case of pressure fluctuations)			
4	Pressure reducer (switching time-related application)			
5	3/2-directional control valve (installation as near to the brake as possible)			
6	Quick-action ventilating valve (switching time-related application)			
7	Pressure switch: Switching point <0.5 bar (brake closed) • Brake must not be pressurised			
8	Pressure switch: Min. Operating pressure (brake opened) • Minimum operating pressure must be used □ In case of pressure fluctuations □ In case of pressure drop e.g. leakages			

Options

Screw connection from below

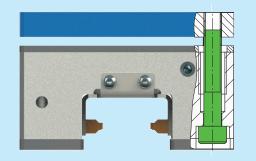
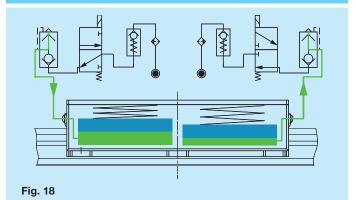


Fig. 17

Redundant design (dual circuit brake) Type standard



Brake Dimensioning

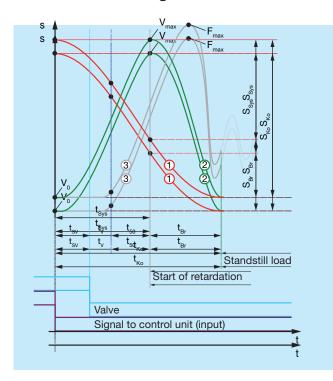


Diagram 1: Switching / Braking Times / Distances

Name

Name	•			
1		Distance		
2		Speed		
3		Axial force		
	[°]	Angular position 0° (horizontal) to 90° (vertical)		
a _B	[m/s ²]	Acceleration of the downward-moving load, dependent on the angular position		
a _v	[m/s ²]	Retardation		
g	[m/s ²]	Gravitational acceleration (9.81 m/s²)		
F _{Br}	[N]	Braking force for dynamic calculation		
F _{erf.}	[N]	Required holding force		
F _N	[N]	Nominal holding force (minimum holding force)		
F _{NGes}	[N]	Total nominal holding force (one or more brakes)		
F _{max}	[N]	Maximum holding force		
m	[kg]	Load mass		
S _{Sys} [m] of the retardation up to the stands System distance: Distance trave until the retardation begins. Stopping distance: Distance from		Braking distance: Distance from the beginning of the retardation up to the standstill of the load		
		System distance: Distance travelled by the load until the retardation begins.		
		Stopping distance: Distance from the signal interruption up to standstill of the load		
t ₅₀	[s]	Brake switching time		
t _v	[s]	Valve switching time		
t _{sv}	[s]	Switching time control unit (signal processing time)		
t _{Sys} [s] Syst		System switching time		
t _{Br}	[s]	Brake braking time		
t _{Ko}	[s]	Stopping time: Time from the signal interruption up to standstill of the load		
V ₀	[m/s]	Initial speed		
V _{max}	[m/s]	Maximum speed		

General

When selecting the brake, the nominal holding force must be greater or equal to the required holding force.

$$F_N \geq F_{erf.}$$
 [N]

Dimensioning for dynamic braking (EMERGENCY STOP)

For safety reasons, at least the weight load of the masses to be held +100 % reserve must be provided.

The larger the ratio of the nominal holding force to the required holding force, the shorter the stopping distance (for the same technical conditions)

The minimum required holding force can be calculated with the following formula:

$$F_{erf.} = m \times g \times 2 \times S$$
 [N]

Dimensioning for static holding (clamping)

We recommend to provide at least the weight load of the mass to be held +50 % reserve.

The minimum required holding force can be calculated with the following formula:

$$F_{erf.} = m \times g \times 1.5^{1} \times S$$
 [N]

$$F_{erf.} = m \times g \times 1.25 \times Inspection faktor^{2} \times S$$
 [N]

	Safety factor S	Greasing Profiled rail			
		Grease 3)	Mineral oil		
	Type 380	2	1		
	Type 381	1.25	1		

The stopping distance / stopping time of the load to be braked is strongly dependent on the following influences:

- Switching time control unit (signal processing)
- · Switching time of the valve
- Switching time of the brake
- Cross-section and length of the lines

The larger the sum of the switching times, the later the retardation of the load occurs (due to longer periods of acceleration). The stopping distance / the stopping time becomes longer (with constant holding force).

- 1) Without cyclical brake test
- 2) Cyclical brake test with inspection factor. The Inspection factor must be determined by the user with the applicable standards. 1.25 × inspection factor must result in at least 1.5. *mayr*® power transmission recommends ≥1.3 as inspection factor
- 3) Friction value reducing residues on the profiled rail must be avoided

Please ensure sufficient dimensioning of the components of your system which may be placed under heavy loads during acceleration / retardation as a result of dynamic braking actions.

If you have any questions, please contact *mayr*® power transmission.

Calculation Example (Dynamic Braking)

Data:		
Angular position		= 90° (vertical axis)
Mass	m	= 700 kg
Initial speed	V_{0}	= 0.5 m/s
Valve switching time	t_v	= 0.016 s
Switching time control system	t _{sv}	= 0.020 s

1. Pre-selection of braking force

$F_{erf.}$	=	m x g x 2 x S		[N]
$F_{erf.}$	=	700 x 9.81 x 2 x 1	= 13734	[N]

Selected: ROBA®-guidestop Size 45, Type 3840.1_0_ _

Nominal holding force $\mathbf{F}_{N} = 15000 \ \mathbf{N}$

(from Table "Technical Data")

$S_{Ko} = S_{Br} + S_{Sys} = 0.077 + 0.079$ = 0.156Stopping time

[m]

Stopping distance

$$\mathbf{t}_{Ko}$$
 = \mathbf{t}_{Br} + \mathbf{t}_{Sys} = 0.115 + 0.086 = 0.201 [s]
 \mathbf{t}_{Br} = $\frac{V_{max}}{\frac{F_{NGes}}{m}} - a_{B}$ = $\frac{1.34}{\frac{15000}{700}} - 9.81$ [s]

Retardation (for system dimensioning)

$$a_v = \frac{F_{NGes} \times 2.5}{m} - g = \frac{15000 \times 2.5}{700} - 9.81 = 43.76 \text{ [m/s}^2$$

Load =
$$\frac{a_v}{g} = \frac{43.76}{9.81}$$
 = 4.46 [g]

2. Calculation of the stopping distance /stopping time

Checking the selected brake size

Acceleration of the load

$$a_B = g x \sin(\beta) = 9.81 x \sin(90^\circ) = 9.81 [m/s^2]$$

System distance

Braking distance

$$S_{Br} = \frac{V_{max}^2}{2 \times (\frac{F_{NGes}}{m} - a_B)} = \frac{1.34^2}{2 \times 11.62} = 0.077$$
 [m]

$$V_{max} = V_0 + a_B \times t_{Sys} = 0.5 + 9.81 \times 0.086 = 1.34 \text{ [m/s]}$$

3. Friction work (Type 3840.1_0_ _)

Friction work per braking action

$$Q_r$$
 = $m \times a_B \times S_{Br} + 0.5 \times m \times V_{max}^2$ [J]
 Q_r = $700 \times 9.81 \times 0.077 + 0.5 \times 700 \times 1.34^2$ [J]
 Q_r = 1157 [J]

Number of braking actions up to wear end

$$Z_{zul.} = \frac{Q_{r ges}}{Q_r}$$

ROBA®-guidestop hydraulic

Friction Work and Switching Times (Type 3840) 1) 3)			Size			
			35	45	55	65
Permitted total friction work up to wear end 2)	[10 ⁶ J]	On request				
Permitted total friction work up to wear end ²⁾ Maximum permitted friction work per braking action ²⁾ Q _{r ges.} [10 ⁶ J] On request On request						
Brake switching time	t ₅₀	[s]	0.040	0.050	0.050	0.060

ROBA®-guidestop pneumatic

Friction Work and Switching Times (Type 385 ² / 1) 1) 3)			Size						
Friction Work and Switching Times (Type 385 ² / ₃ .1) ^{1) (3)}		25	45						
Permitted total friction work up to wear end 2)	Q _{r ges.}	[10 ⁶ J]	On request						
Maximum permitted friction work per braking action 2)	Q _{r zul.}	[J]		On request					
Brake switching time Type 3852/3	t50	[s]		On request					

Friction Work and Switching Times (Type $385^4/_5$.1) ³⁾			Size						
			25	30	35	45	55	65	
Permitted total friction work up to wear end 2)	Q _{r ges.}	[10 ⁶ J]	1.0	1.5	1.8	2.6	3.7	4.9	
Maximum permitted friction work per braking	Q _{r zul.}	[J]	452	719	903	1287	1838	2450	
Brake switching time Type 3854/5 4)	t ₅₀	[s]	0.050	0.060	0.060	0.080	0.095	0.100	
Separation time	t ₂	[s]	0.12	0.12	0.12	0.23	0.3	0.35	

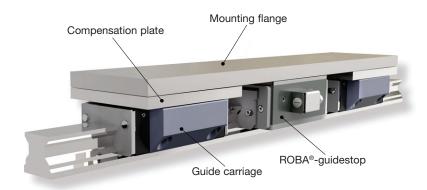
¹⁾ For friction work Type 38__.0____, please contact <code>mayr®</code> power transmission. The switching times also apply for Type 38__.0___

- 3) Switching times are influenced by line length, operating pressure and wear 4) Switching times also apply for Type 385⁴/₅.0____



A quick-action ventilating valve must be used for the stated switching times of the pneumatic ROBA®-guidestop.

Installation Example



The ROBA®-guidestop profiled rail brake does not assume any guidance function and must only be used in combination with guide

Mounting flange and compensation plate for mounting the guide carriages are available on request.

²⁾ For higher friction work / total friction work, please contact mayr® power transmission.



Headquarters

Chr. Mayr GmbH + Co. KG

Eichenstraße 1 D-87665 Mauerstetten Tel.: +49 83 41/8 04-0 Fax: +49 83 41/80 44 21 public.mayr@mayr.com www.mayr.com

Service Germany/Austria

Baden-Württemberg

Esslinger Straße 7 70771 Leinfelden-Echterdingen Tel.: 07 11/78 26 26 40 Fax: 07 11/78 26 26 39

Bayern

Industriestraße 51 82194 Gröbenzell Tel.: 0 81 42/50 19 808

Franken

Unterer Markt 9 91217 Hersbruck Tel.: 0 91 51/81 48 64 Fax: 0 91 51/81 62 45

Chemnitz

Bornaer Straße 205 09114 Chemnitz Tel.: 03 71/4 74 18 96 Fax: 03 71/4 74 18 95

Kamen

Herbert-Wehner-Straße 2 59174 Kamen Tel.: 0 23 07/24 26 79 Fax: 0 23 07/24 26 74

Nord

Schiefer Brink 8 32699 Extertal Tel.: 0 57 54/9 20 77 Fax: 0 57 54/9 20 78

Rhein-Main

Kohlhäuser Str. 3-5 36043 Fulda Tel.: 06 61/96 21 02 15

Österreich

Pummerinplatz 1, TIZ I, A27 4490 St. Florian, Österreich Tel.: 0 72 24/2 20 81-12 Fax: 0 72 24/2 20 81 89

Branch office

China

Mayr Zhangjiagang Power Transmission Co., Ltd. Fuxin Road No.1298, Yangshe Town 215637 Zhangjiagang Tel.: 05 12/58 91-75 67 Fax: 05 12/58 91-75 66

Großbritannien

info@mayr-ptc.cn

Mayr Transmissions Ltd. Valley Road, Business Park Keighley, BD21 4LZ West Yorkshire Tel.: 0 15 35/66 39 00 Fax: 0 15 35/66 32 61 sales@mayr.co.uk

Mayr Japan LLC 2F. 1-1-9 Nihonbashi Kakigara-cho. Chuo-ku Tokyo, 103-0014 Japan Tel.: 03/35 27-29 00

Fax: 03/35 27-26 61 public.mayr@mayr.co.jp

Frankreich

Mayr France S.A.S. Z.A.L. du Minopole Rue Nungesser et Coli 62160 Bully-Les-Mines Tel.: 03.21.72.91.91 Fax: 03.21.29.71.77 contact@mayr.fr

Schweiz

Mayr Kupplungen AG Tobeläckerstraße 11 8212 Neuhausen am Rheinfall Tel.: 0 52/6 74 08 70 Fax: 0 52/6 74 08 75

info@mayr.ch

Singapur

Mayr Transmission (S) PTE Ltd. No. 8 Boon Lay Way Unit 03-06, TradeHub 21 Singapore 609964 Tel.: 00 65/65 60 12 30

Fax: 00 65/65 60 10 00 info@mayr.com.sg

Indien

Mayr Power Transmissions India Private Ltd. Office No. 101A, First Floor Delta-1, Giga Space IT Park, Viman Nagar Pune 411014 Maharashtra, India Tel.: 020/49 131 000

public.mayr@mayr.co.in www.mayr.co.in

Representatives

Australien

Drive Systems Pty Ltd. 8/32 Melverton Drive Hallam, Victoria 3803 Australien

Tel.: 0 3/97 96 48 00 info@drivesystems.com.au

Taiwan

German Tech Component Co., Ltd. No.10-3, Ln. 358, Sec. 1, Hemu Rd., Shengang Dist., 429012 Taichung City Tel.: +886 (4) 25150566 Fax: +886 (4) 25152413 abby@zfgta.com.tw

Niederlande

Groneman BV Amarilstraat 11 7554 TV Hengelo OV Tel.: 074/2 55 11 40 Fax: 074/2 55 11 09 info@groneman.nl

Türkei

Representative Office Türkei Kucukbakkalkoy Mah. Brandium Residence R2 Blok D:254 34750 Atasehir - Istanbul, Türkei

Tel.: 02 16/2 32 20 44 Fax: 02 16/5 04 41 72 info@mayr.com.tr

Italien

Mayr Italia S.r.I. Viale Veneto, 3 35020 Saonara (PD) Tel.: 049/879 10 20 Fax: 049/879 10 22 info@mayr-italia.it

USA

Mayr Corporation 10 Industrial Avenue Mahwah NJ 07430

Tel.: 2 01/4 45-72 10 Fax: 2 01/4 45-80 19 info@mayrcorp.com

Polen

Wamex Sp. z o.o. ul. Pozaryskiego 28 04-703 Warszawa Tel.: 0 22/6 15 90 80 Fax: 0 22/8 15 61 80 wamex@wamex.com.pl

Südkorea

Mayr Korea Co. Ltd. 15, Yeondeok-ro 9beon-gil Seongsan-gu 51571 Changwon-si Gyeongsangnam-do. Korea Tel.: 0 55/2 62-40 24 Fax: 0 55/2 62-40 25 info@mayrkorea.com

14/08/2024 GF/STE

More representatives:

Belgium, Brazil, Canada, Colombia, Croatia, Denmark, Finland, Greece, Hungary, Indonesia, Israel, Luxembourg, Malaysia, Mexico, New Zealand, Norway, Philippines, Portugal, Romania, Slovakia, Slovenia, South Africa, Spain, Sweden, Thailand

You can find the complete contact details for the representative responsible for your area in the Contact section at www.mayr.com









