

Accuride®



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Selection Tool
on the Internet at
www.maedler.de
in the section
MÄDLER®-Tools

General Description and Technical Notes

General Description and Application

High-quality, maintenance-free, ball bearing precision slides for various applications in machines and appliances used in trade or industry:

e.g. vending machines, automated pay stations, production plants, for protected storage of input or monitoring devices on computer controlled machine tools and production lines, pull-out shelves, cover hoods etc. In vehicles (mobile workshop, fire rescue or first aid trucks/vehicles, passenger trains) and aeroplanes pull-out objects also facilitate an optimum utilization of the available space.

Material

Slide elements: Cold-rolled steel, in part stainless steel 1.4301.
Ball retainers: Pre-plated cold-rolled steel, in part stainless steel or plastic.
Balls: Bearing steel, hardened, in part stainless steel.

Lubrication and Temperature Range

Maintenance free: Lubricated for life with low-temperature grease, -20°C to +120°C.
 No relubrication required.
 Temperature range: see corres. catalog page.

Surface Protection

Zinc plated, bright, some parts passivated black. Painted white on request. Type DH3832 with special zinc coating for extra strong corrosion protection (stainless steel parts have their natural colour).

Selection and Dimensioning

For easy selection we recommend using the selection table on page 500 considering the following criteria:

- 3/4 or full extension.
- Load rating.
- Additional features.
- Surface finish / material.
- Outer dimensions.

An optimum sliding action is achieved under load. The slides should therefore never be heavily over-dimensioned.

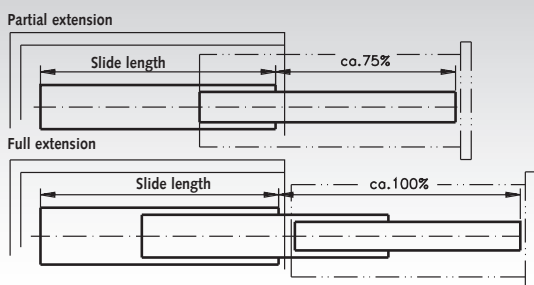
Travel

Difference regarding 3/4 extension and full extension:

3/4 Extension: Two-part slides allow a travel of about 75% of the slide length.

Full extension: Three-part slides allow a travel of about 100% of the slide length. Some of these types offer an even larger travel (over extension). Type 2026 offers 3/4 extension in both directions.

All other types can only be pulled out in one direction.



Additional Features

Depending on the slide type, all slides are equipped for different special requirements:

- **Fast disconnection:** Allows easy disconnection of the drawer.
- **Hold-in:** Holds the drawer in closed position.
- **Hold-out:** Holds the drawer in open position.
- **Locking:** Locks the drawer in closed and/or open position. A lever must be actuated to move the slide.
- **Self close:** A spring mechanism retracts the pulled-out slide.
- **Bracket mount:** For an optimum side or bottom/platform mounting. With Type DZ 2109 the brackets included.

For Types DZ 2132, 3832, 3832SC/DO, 7957, 9301-E and 9308 brackets can be ordered separately.

Optional brackets to mount slides inside electrical cabinets can be supplied on request. Some slide types also offer the possibility to adjust the drawer fronts with special adjusting cams.

Load Bearing Capacity

The stated load ratings relate to the maximum permissible load for a pair of vertically mounted slides (side mounted slides). For horizontally (flat) mounted slides the load bearing capacity is reduced to only 25% of the stated load rating. The load ratings refer to a load applied to the midpoint of the slide, at a travel of 450 mm. The stated load ratings are dynamic values. For static set ups the value can at max be doubled.

Mounting

Optimum movement is achieved under slight tensile force. The mounting width should therefore exceed the slide width by 0.2 to 0.5 mm. After mounting, the slides should be checked for easy movement, and if necessary be adjusted. If no easy sliding movement can be achieved, the mounting set up should be checked regarding width, alignment and angularity.



Mounting Width X
 = Slide Width +0,2 / +0,5 mm

Slides Selection Table

The slides in the table are sorted as follows: 1. According to the extension type: Partial or full extension (100%) / over extension (>100%).
2. Within the extension type: according to load rating, from low to high.

Slide Type	Travel	Load kg	Width x Height mm	Fast Disconnect	Hold In	Hold Out	Locking 1)	Self Closure	Optional Mounting Brackets	Surface Finish or Material	Page
DZ 2002	Partial 2)	35	9,5 x 35,1		X					zinc plated	502
DZ 2109	Partial	35	12,7 x 34,8	X	X	X			X	zinc plated	501
DZ 0201	Partial	50	9,5 x 35,3							zinc plated	503
DZ 2026	Partial 2)	50	9,5 x 35,3			X				zinc plated	504
DB 2132	Partial	50	12,7 x 35,0	X	X				X	black zinc plated	505
DZ 2132	Partial	50	12,7 x 35,0	X	X				X	zinc plated	505
DZ 0204	Partial	65	9,5 x 35,3	X			A			zinc plated	506
DS 2028	Partial	65	9,5 x 35,3		X					stainless steel <small>STAINLESS</small>	507
DA 4120	Partial	550	36 x 80,0							aluminium	508
DZ 2431	100%	20	16,0 x 20,0							zinc plated	509
DZ 2731CL	100%	30	19,1 x 27,0				E			zinc plated	510
DZ 3732	100%	40	12,7 x 37,0	X	X				X	zinc plated	513
DZ 2601	100%	45	12,7 x 26,3		X					zinc plated	511
DZ 2642	100%	45	12,7 x 26,3		X					zinc plated	512
DZ 3832EC-B	100%	45	12,7 x 45,7	X	X			X		zinc plated	514
DZ 3832TR	100%	45	12,7 x 45,7	X	TR 3)					zinc plated	517
DH 3832	100%	50	12,7 x 45,7	X	X					zinc plated	516
DZ 3832	100%	50	12,7 x 45,7	X	X				X	zinc plated	515
DZ 3832SC	100%	50	12,7 x 45,7	X	X			X	X	zinc plated	518
DZ 3832DO	100%	50	12,7 x 45,7	X	X	X			X	zinc plated	519
DA 5321	>100%	50	19,1 x 53,1		X					aluminium	520
DZ 2907	>100%	55	9,6 x 41,0	X			A			zinc plated	521
DZ 3301	>100%	68	12,7 x 50,8		X					zinc plated	523
DZ 3307	>100%	68	12,7 x 50,8	X			A			zinc plated	524
DZ 3308	>100%	68	12,7 x 50,8	X			E / A			zinc plated	525
DZ 0301	>100%	70	19,1 x 35,3							zinc plated	527
DS 0305	>100%	70	19,1 x 35,3	X			A			stainless steel <small>STAINLESS</small>	526
DZ 0305	>100%	70	19,1 x 35,5	X			A			zinc plated	526
DS 0330	100%	80	19,1 x 35,0		X					stainless steel <small>STAINLESS</small>	522
DS 3031	>100%	80	19,1 x 35,3							stainless steel <small>STAINLESS</small>	528
DS 3557	>100%	90	12,7 x 51,6	X			A			stainless steel <small>STAINLESS</small>	529
DZ 5417	>100%	100	17,5 x 54,0		X					zinc plated	530
DZ 5321EC	100%	100	19,1 x 53,1					X	X	zinc plated	531
DS 5322	>100%	120	20,7 x 53,1		X					stainless steel <small>STAINLESS</small>	532
DZ 3607	>100%	120	19,1 x 53,1	X			A			zinc plated	533
DZ 5321SC	>100%	120	19,1 x 53,1		X			X		zinc plated	535
DZ 7957	100%	160	19,1 x 70,8	X					X	zinc plated	534
DZ 5321	>100%	170	19,1 x 53,1		X					zinc plated	536
DS 5321	>100%	170	19,1 x 53,1		X					stainless steel <small>STAINLESS</small>	536
DZ 0522	>100%	180	26,5 x 95,5							zinc plated	541
DZ 9308	100%	227	19,1 x 76,2				E / A		X	zinc plated	539
DP 9301E	100%	272	19,1 x 76,2							zinc plated	538
DZ 9301E	100%	272	19,1 x 76,2						X	zinc plated	537
DA 4160	100%	300	26,5 x 80,0							aluminium	540

1) A = Locks in open position. E = Locks in closed position.

2) Partial Extension in both directions.

3) Opens by pressing on the drawer (grip or knob not required).



Other Accuride® Products on request.

Linear guides on page 545