

Accuride®



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Selection Tool

on the Internet at

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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: -17°C to +70°C.

Surface Protection

Zinc plated, bright, some parts passivated black or painted white. 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 771 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.

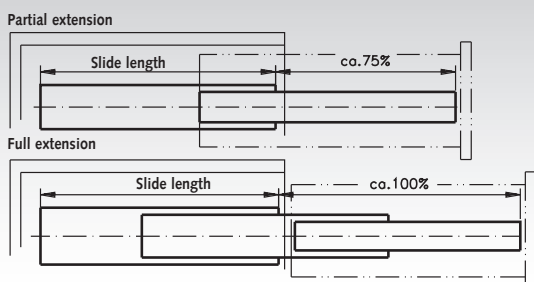
Travel

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.



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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 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 / over extension.
2. Within the extension type: according to load rating, from low to high.

Slide Type	Page	Travel	Load kg	Width x Height mm	Fast Disconnect	Hold In	Hold Out	Locking 1)	Self Closure	Optional Mounting Brackets	Surface Finish or Material
DZ 2109	773	Partial	35	12,7 x 34,8	●	●	●			●	zinc plated
DZ 2002	774	Partial 2)	35	9,5 x 35,1		●					zinc plated
DZ 0201	775	Partial	50	9,5 x 35,3							zinc plated
DZ 2026	776	Partial 2)	50	9,5 x 35,3			●				zinc plated
DB/DZ 2132	777	Partial	50	12,7 x 35	●	●				●	either bright or black zinc plated
DZ 0204	778	Partial	65	9,5 x 35,3	●			A			zinc plated
DS 2028	779	Partial	65	9,5 x 35,3		●					Stainless Steel 
DA 4120	780	Partial	550	36 x 80							Aluminium
DZ 2601	781	Full	45	12,7 x 26,3		●					zinc plated
DZ 2642	782	Full	45	12,7 x 26,3		●					zinc plated
DZ 3732	783	Full	40	12,7 x 37	●	●				●	zinc plated
DZ 3832	784	Full	50	12,7 x 45,7	●	●				●	zinc plated
DH 3832	785	Full	50	12,7 x 45,7	●	●					zinc plated
DZ 3832TR	786	Full	45	12,7 x 45,7	●	Touch Release 3)					zinc plated
DZ 3832SC	787	Full	50	12,7 x 45,7	●	●			●	●	zinc plated
DZ 3832DO	788	Full	50	12,7 x 45,7	●	●	●			●	zinc plated
DA 5321	789	Over	50	19,1 x 53,1		●					Aluminium
DZ 2907	790	Over	55	9,6 x 41	●			A			zinc plated
DS 0330	791	Full	80	19,1 x 35		●					Stainless Steel 
DZ 3301	792	Over	68	12,7 x 50,8		●					zinc plated
DZ 3307	793	Over	68	12,7 x 50,8	●			A			zinc plated
DZ 3308	794	Over	68	12,7 x 50,8	●			E/A			zinc plated
DZ 0305	795	Over	70	19,1 x 35,5	●			A			zinc plated
DZ 0301	796	Over	70	19,1 x 35,3							zinc plated
DS 3031	797	Over	80	19,1 x 35,3							Stainless Steel 
DZ 5417	798	Over	100	17,5 x 54,0		●					zinc plated
DS 5322	799	Over	120	20,7 x 53,1		●					Stainless Steel 
DZ 3607	800	Over	120	19,1 x 53,1	●			A			zinc plated
DZ 7957	801	Full	160	19,1 x 70,8	●					●	zinc plated
DZ 5321SC	802	Over	120	19,1 x 53,1		●			●		zinc plated
DZ 5321	803	Over	170	19,1 x 53,1		●					zinc plated
DS 5321	803	Over	170	19,1 x 53,1		●					Stainless Steel 
DZ 0522	807	Over	180	26,5 x 95,5							zinc plated
DZ 9301	804	Full	227	19,1 x 76,2						●	zinc plated
DZ 9308	805	Over	227	19,1 x 76,2				E/A		●	zinc plated
DA 4160	806	Full	300	26,5 x 80,0							Aluminium

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 810