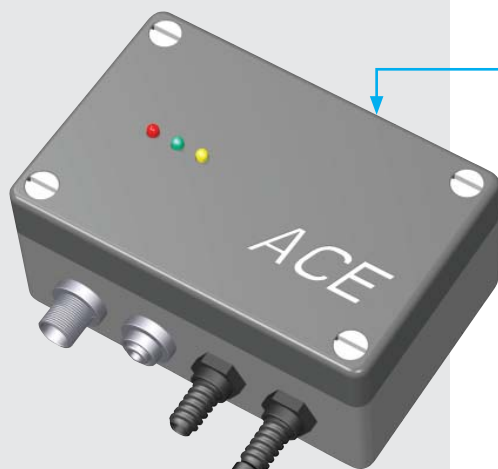


The newly developed innovative **IDS shock absorber series** builds on the **proven ACE MAGNUM models**. The modular system consisting of industrial shock absorber, drive unit and separate electronic module offers unique flexibility. The system is ideal for applications with a wide range of weights and impact velocities. The drive unit is controlled by the electronic module which adjusts the IDS shock according to the individually required damping performances.

The IDS series offers easy handling



Electronic Module



Stainless Steel Button with Elastomer Insert

Integrated Positive Stop

Shock Absorber (Stainless Steel Outer Body)

Drive Unit (Body Stainless Steel)

combined with individual control via a **CAN-Open field bus interface**. The integration into existing CAN-Open field buses is possible as well as the integration via optional gateways in **Profibus or other bus systems**. Further more directly implementable **CAN-Open master** is available for Siemens controls. This enables control of the IDS shocks directly from the machine or system control. The IDS damping system is adjusted and developed in close cooperation between ACE and the customer.

**Material:** Outer body shock absorber and drive unit: Stainless Steel 1.4404 (not saltwater-proof). Piston rod: Hardened and chrome plated high tensile steel. Electronic module housing: Coated aluminium

**Adjustment:** Electronic by drive unit, adjustment speed about 0.2 sec/adjustment scale and 1.8 seconds for total adjustment area

**Mounting:** In any position

**Configuration:** Drive unit and electronic module connected with cable

**Field bus interface:** CAN-Open, accesible over electronic module

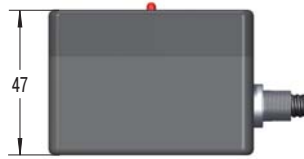
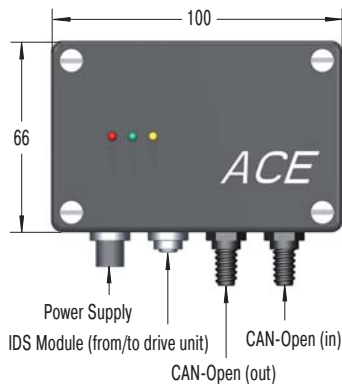
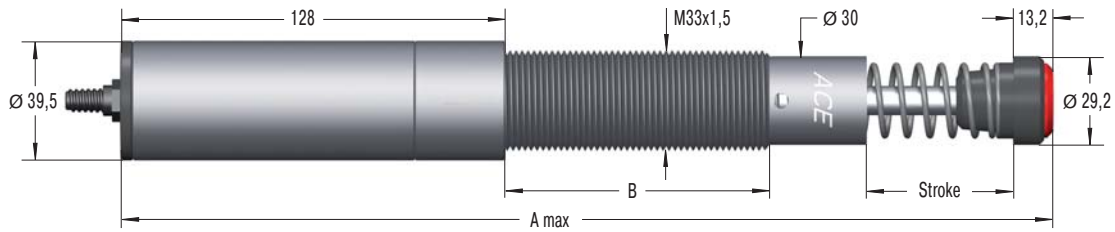
**Power supply:** 24 VDC, input by electronic module

**Protection class (electronic module):** IP67

**Impact velocity range:** 0.15 to 5 m/s, on request under 0.15 m/s and up to 20 m/s

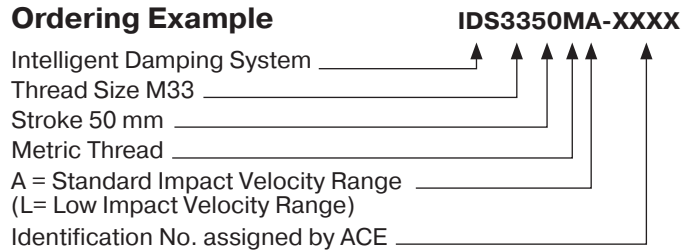
**Operating fluid:** Automatic Transmission Fluid (ATF) viscosity 42 cSt. at 40 °C





The calculation and the selection of the correct IDS shock absorber for your application should be referred to ACE for approval and assignment of unique identification number.

### Ordering Example

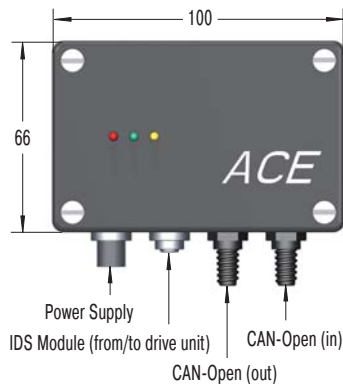
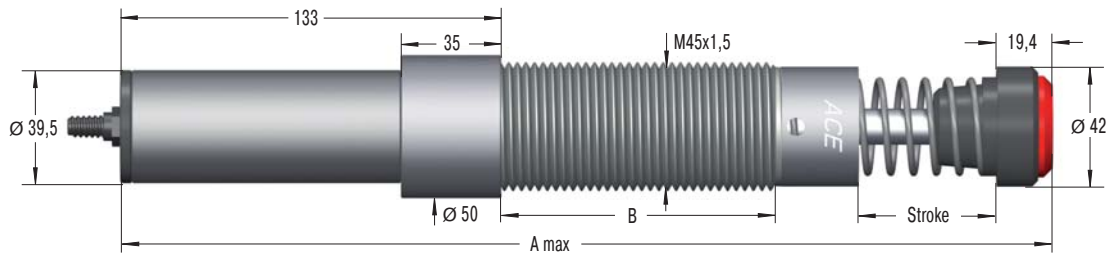


### Dimensions

Type	Stroke mm	A max	B
IDS3325MA/IDS3325ML	23	239.2	63
IDS3350MA/IDS3350ML	48.5	310.2	88

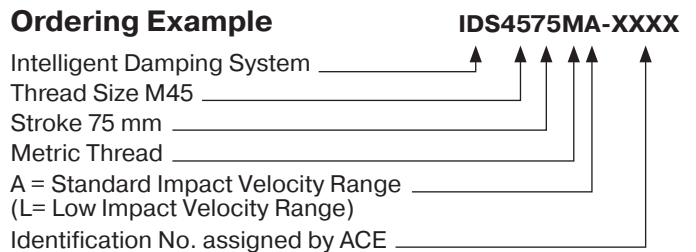
### Capacity Chart

Type Part Number	Max. Energy Capacity		Effective Weight me		Min. Return Force N	Max. Return Force N	Rod Reset Time s	Max. Side Load Angle °	Weight kg
	W <sub>3</sub> Nm/Cycle	W <sub>4</sub> Nm/h	me min. kg	me max. kg					
IDS3325MA	170	75 000	9	1 700	45	90	0.03	4	1.2
IDS3325ML	170	75 000	300	50 000	45	90	0.03	4	1.2
IDS3350MA	340	85 000	13	2 500	45	135	0.06	3	1.3
IDS3350ML	340	85 000	500	80 000	45	135	0.06	3	1.3



The calculation and the selection of the correct IDS shock absorber for your application should be referred to ACE for approval and assignment of unique identification number.

### Ordering Example

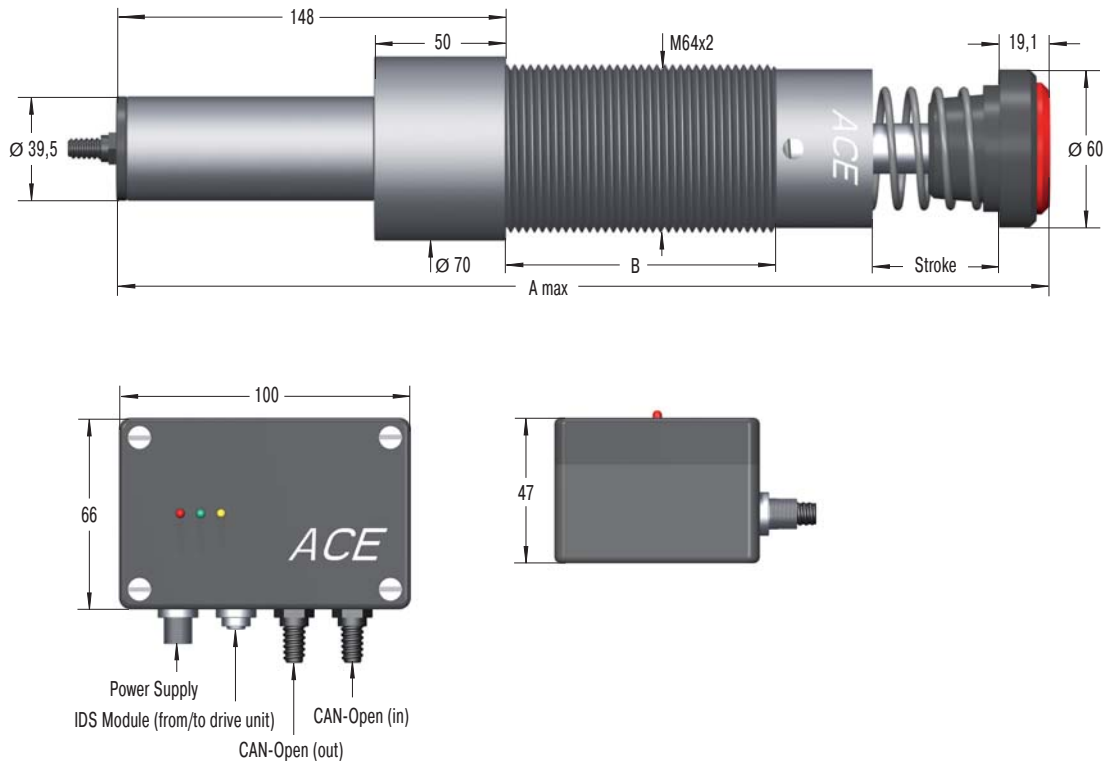


### Dimensions

Type	Stroke mm	A max	B
IDS4525MA/IDS4525ML	23	272.4	72
IDS4550MA/IDS4550ML	48.5	322.4	98
IDS4575MA	74	373.4	123

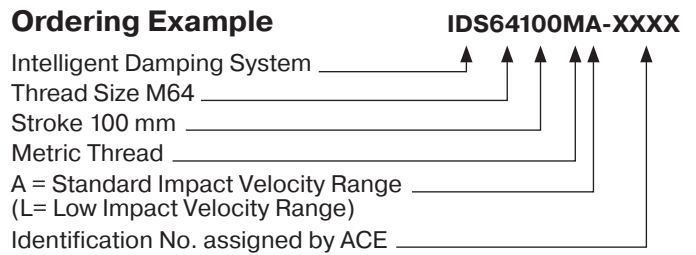
### Capacity Chart

Type Part Number	Max. Energy Capacity		Effective Weight me		Min. Return Force N	Max. Return Force N	Rod Reset Time s	Max. Side Load Angle °	Weight kg
	W <sub>3</sub> Nm/Cycle	W <sub>4</sub> Nm/h	me min. kg	me max. kg					
IDS4525MA	390	107 000	40	10 000	70	100	0.03	4	2.0
IDS4525ML	390	107 000	3 000	110 000	70	100	0.03	4	2.0
IDS4550MA	780	112 000	70	14 500	70	145	0.08	3	2.3
IDS4550ML	780	112 000	5 000	180 000	70	145	0.08	3	2.3
IDS4575MA	1170	146 000	70	15 000	50	180	0.11	2	2.5



The calculation and the selection of the correct IDS shock absorber for your application should be referred to ACE for approval and assignment of unique identification number.

### Ordering Example



### Dimensions

Type	Stroke mm	A max	B
IDS6450MA/IDS6450ML	48.5	352.1	103
IDS64100MA	99.5	453.1	154

### Capacity Chart

Type Part Number	Max. Energy Capacity		Effective Weight me		Min. Return Force N	Max. Return Force N	Rod Reset Time s	Max. Side Load Angle °	Weight kg
	W <sub>3</sub> Nm/Cycle	W <sub>4</sub> Nm/h	me min. kg	me max. kg					
IDS6450MA	2 040	146 000	220	50 000	90	155	0.12	4	4.1
IDS6450ML	2 040	146 000	11 000	500 000	90	155	0.12	4	4.1
IDS64100MA	4 080	192 000	270	52 000	105	270	0.34	3	5.0