



## OVERVIEW

AxleTech's 5000 Series ISAS is specifically designed for applications requiring high-mobility and maneuverability. Our double-wishbone design allows for unrivaled ride control and handling with superior cross-country mobility and safety in all operating environments. The 5000 Series ISAS axle capacity ranges from 22,075 to 29,000 lbs. (10,000 to 13,200 kg). Independent Suspension Module (ISM) configurations are available on this series.

## TECHNICAL SPECIFICATIONS

	5000 Series ISAS with Inboard Brakes	5000 Series ISAS with Outboard Brakes
<b>Configuration</b>	Double-wishbone	Double-wishbone
<b>Rating lb (kg)</b>	22,075 to 29,000 (10,000 to 13,200)	22,075 to 29,000 (10,000 to 13,200)
<b>Axle weight lb (kg)</b>	3,130 to 3,340 (1,420 to 1,515)	2,870 (1,300)
<b>Axle type</b>	Full-floating, front driving, steering	Full-floating, front driving, steering
<b>Axle ratios</b>	4.8 to 28.0	3.9 to 28.0
<b>Planetary ratios</b>	3.55, 4.0, 4.63, 5.6	3.55, 4.0, 4.28, 4.63
<b>Differential</b>	Standard, Limited Slip, Air operated differential lock	Standard, Limited Slip, Differential lock
<b>Wheel mount in (mm)</b>	Hub piloted 10 Stud - 13.19 BC (335)	Hub piloted 10 Stud - 13.19 BC (335), 10Stud - 11.25 BC (285)
<b>Brakes</b>	Air disc brake, Cam brake, Inboard brake (hydraulic or air)	Hydraulic drum brake, Air and hydraulic disc brake, Wedge brake
<b>Springs</b>	Variety of progressive rate coil springs, air/coil or hydraulic struts	Variety of progressive rate coil springs, air/coil or hydraulic struts
<b>Shock</b>	High capacity hydraulic or air struts	High capacity hydraulic or air struts
<b>Total wheel travel in (mm)</b>	15.75 (400)	13.0 (330)
<b>Ground clearance at center in (mm)</b>	15.47 (393) (with tire 16.00R20)	19.5 (496) (with tire 16.00R20)
<b>Minimum rim size in (mm)</b>	20, 22.5 (508, 572)	20, 22.5 (508, 572)
<b>Hub flange to flange in (m)</b>	90.3, 97.8 (2.29, 2.5)	90.3 (2.29)
<b>Track in (m)</b>	82.3, 85.4 (2.09, 2.17)	82.3 (2.09)
<b>Pinion joint series</b>	KV 150, KV 180, SAE 1710 or 1810, 16 TYS or 17 TYS, MECH 6C, 7C or 8.5C	KV 150, KV 180, SAE 1710 or 1810, 16 TYS or 17 TYS, MECH 6C, 7C or 8.5C
<b>Steering joint type</b>	Double cardan	Double cardan
<b>Max steering angles</b>	35°	35°
<b>Camber</b>	0°	0°
<b>King pin inclination</b>	8°	8°
<b>ABS hub compatibility</b>	Standard	Standard
<b>Tire inflation</b>	CTIS compatible	CTIS compatible
<b>Input rotation</b>	Clockwise, Counterclockwise	Clockwise, Counterclockwise

NOTE: Track and flange to flange can be adjusted; rating, ratios and main dimensions are subject to AxleTech Engineering approval.

## OVERVIEW

AxleTech's industry-leading Independent Suspension Axle Systems (ISAS<sup>®</sup>) are the optimal drivetrain solutions for applications requiring high-mobility and maneuverability. Our double-wishbone design provides unrivaled ride control and handling with superior cross-country mobility and safety in all operating environments. Our products have proven field performance around the world through vigorous testing and exceptional engineering.

### PROTECTION

Better control in rough terrain through improved steering and maximum tire-to-ground contact and suspension flexibility.

### PAYLOAD

Axle capacity ranges from 3,300 to 29,000 lbs. (1,500 to 13,200 kg).

### PERFORMANCE

Average cross-country speed gain is 2-3 times faster than standard beam axles.



## PRODUCT LINE

### 2000 SERIES ISAS

Light Duty Applications (4x4)

3,300 to 7,700 lb (1,500 to 3,500 kg) axle capacity

### 3000/3400 SERIES ISAS

Light Duty Applications (4x4, 6x6, 8x8)

7,700 to 11,040 lbs. (3,500 to 5,000 kg) - 3000 Series ISAS with 3000 series carrier

11,040 to 14,300 lbs. (5,000 to 6,500 kg) - 3400 Series ISAS with 4000 series carrier

### 4000/4500 SERIES ISAS

Medium Duty Applications (4x4, 6x6, 8x8)

14,350 to 19,870 lbs. (6,500 to 9,000 kg) - 4000 Series ISAS with 90mm spindle

19,870 to 23,620 lbs. (9,000 to 10,700 kg) - 4500 Series ISAS with 100mm spindle

### 5000 SERIES ISAS

Heavy Duty Applications (4x4, 6x6, 8x8)

22,075 to 29,000 lbs. (10,000 to 13,200 kg) axle capacity

NOTE: Independent Suspension Module (ISM) configurations are available on the 2000, 3000, 4000, and 5000 series. / Portal wheel end options are available for the 2000 and 3000 series. / Steering system can be designed and supplied for each application (except steering box).

### HEADQUARTERS

AxleTech  
 1400 Rochester Road  
 Troy, Michigan 48083  
 USA

### CUSTOMER SERVICE

+1 877-547-3907  
 +1 248-658-7200

### EMAIL

OE: sales@axletech.com  
 Aftermarket: aftermarket@axletech.com

**AXLETECH.COM**