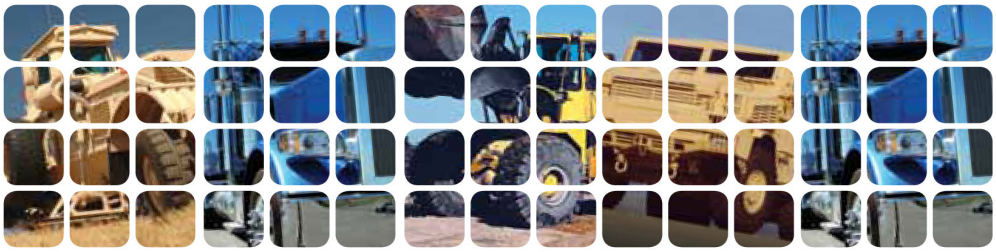

AxleTech International
A GENERAL DYNAMICS COMPANY

## Non-Drive Steer Axles

# FS25 (25.6K lbs / 11.6 t)

## OVERVIEW

The AxleTech International FS25 Non-Drive Steer Axle is engineered to meet the increasing demands of the various On/Off-Road market vocations. With a nominal rated capacity of 25,600 lbs. (11,600 kg.), the FS25 covers a broad vehicle range including: truck mounted hydraulic cranes, agricultural, construction, and specialty chassis applications.

Engineered for a variety of specialty vehicle applications, the FS25 features 16.5" x 6" and 7" Q Plus™ (419x152 and 178mm) heavy-duty cam brakes and tubular steel beam construction for multiple OEM vehicle mounting configurations. With a standard spindle to beam centerline drop of 1.5" (38.1mm), the suspension height may be varied. Multiple track widths are achieved by varying the beam lengths.

The 6.375" (162mm) O.D. tubular steel beam will accommodate a variety of bracket configurations. The multiple drop and bracket configurations make the FS25 the most versatile heavy-duty steer axle in the specialty vehicle industry. The straight tie rod design optimizes tie rod strength, and also enhances protection behind the tubular beam from external damage. The FS25 axle is available for either a single or tandem vehicle installation; also has options on dual steer arms, and tie rod arms available to improve nominal Ackerman steer. The FS25 axle has both inch/metric conventional wheel studs as available mountings to improve OEM vehicle installation flexibility.

Individual applications require prior approval by AxleTech International Engineering.

AxleTech International is the former Rockwell® Off Highway and European Specialty Products Group.

## SPECIFICATIONS

| AXLE CAPACITY(1) Pounds (kg) | A MOUNTING CENTERS Inches (mm) | B HUB FLANGE TO FLANGE(2) Inches (mm) | C KING PIN INTERSECTIONS Inches (mm) | TIRE SIZE Inches (mm) |
|---|---|---|---|---|
| Truck Crane<br>25,600 (11,600)<br>Fertilizer Spreader<br>16,000 (7,250) | 32.0" (813)<br>39.3" (997) | 95.6" (2,428)<br>103.3" (2,623) | 72.0" (1,829)<br>79.6" (2,021) | 22.5" (572)<br>31" (787) |

(1)Approval required on all applications.
(2) Varies with brake/tire options.

**EXAMPLE: TYPICAL AXLE WEIGHT**
Guide axle weight for 95.6" (2,428 mm) hub flange to flange with 16.5" x 7" (419x178 mm) Q Plus brakes + 1,295 lbs. (587 kg.).

A) Axle Mounting Centers
B) Hub Flange to Flange
C) King Pin Intersections

## FEATURES & BENEFITS

| FEATURES | BENEFITS |
|---|---|
| 16.5"x6"/7" Cam Q Plus brakes | Proven stopping capability and dependability |
| 6.375" (162mm) tubular beam construction | Multiple mounting and track configurations available |
| Flexible wheel mounting available | Industry standard common wheel availability |
| Flexible dual steer arm and tie rod arm mounting available | Allows standard or custom steer adaptation/Optimize Ackerman possible. |
| Single/Tandem capability | Allows multiple vehicle configurations |
| ABS brake option capability | OEM flexibility in braking options |
| Axle mounting centers flexibility | Allows OEM vehicle installation flexibility |
| Axle capable of 37.5 degree steer angle | Provides flexibility in OEM installations |
| Straight tie rod design | Optimizes tie rod strength and provides protection behind the tubular beam |
| Inch/metric conventions wheel studs available | Provides OEM flexibility in wheel adaptation |
| Flexible steer cylinder and brackets available | Provides OEM flexibility options |

**AxleTech International**
1400 Rochester Road
Troy, Michigan 48083 USA
1-877-877-9717
Fax: 1-248-435-1990

**AxleTech International SAS**
4, Rue Jean Servanton
Boite Postale 656
42042 Saint Etienne Cedex 1
FRANCE
+33 477-92-88-00
Fax: +33 477-92-88-93

**AxleTech do Brasil Sistemas Automotivos Ltda.**
Av. Marechal Rondon, 840
Osasco - SP - 06093-010
BRASIL
+55 11 3653-1420
Fax: +55 11 3653-1424

**AxleTech Troy Distribution Center**
1400 Rochester Road
Troy, Michigan 48083 USA
1-877-877-9717
Fax: 1-248-435-1990

**www.axletech.com**

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