

**GM MEDIUM DUTY FRONT AXLE SPECIFICATIONS**

S=Standard

A=Available as RPO

**CONVENTIONAL CAB FRONT AXLE AVAILABILITY CHART**

MODELS	FM7 7000 lbs. (3175 kg)	G38 Driving 8000 lbs. (3629 kg)	FM8 8,000 lbs. (3629 kg)	FM6 10,000 lbs. (4536 kg)	FS7 12,000 lbs. (5443 kg)	FL3 14,600 lbs. (6622 kg)	FH4/FS8 16,000/18,000 lbs. (7257/8165 kg)
C4C042	S						
C4C044		S					
C4E042	S						
C4E044		S					
C4U042	S						
C4V042	S						
C5C042	S		A				
C5C044		S					
C5E042	S		A				
C5E044		S					
C5U042	S		A				
C5V042	S		A				
C6C042			S	A			
C6E042				S			
C6V042			S	A			
C7C042			A	S	A	A	
C7E042				S			
C7V042			A	S	A	A	
C8C042				A	S	A	A <sup>1</sup>
C8E042				A	S	A	A
C8V042				A	S	A	A
C8C064					S	A	A <sup>1</sup>
C8E064					S	A	A
C8V064					S	A	A

<sup>1</sup>FS8 Front Axle only available on Models C8C042 and C8C064.

FRONT AXLE SPECIFICATIONS

CONVENTIONAL CAB FRONT AXLE SPECIFICATIONS

I-Beam							
ORDERING CODE	FM7	G38	FM8	FM6	FS7	FL3	FH4/FS8
Make	Arvin Meritor	Dana Driving	Arvin Meritor	Arvin Meritor	Arvin Meritor	Arvin Meritor	Arvin Meritor
I-Beam Design Type (in)/(cm)	Reversed Elliot	Solid Beam	Reversed Elliot	Reversed Elliot	Reversed Elliot	Reversed Elliot	Reversed Elliot
Rated Capacity at Ground lbs./(cm)	7,000 (3175)	8,000 (3629)	8,000 (3629)	10,000 (4536)	12,000 (5443)	14,600 (6622)	16,000/18,000 (7260/8165)
King Pin Centers (in)/(cm)	72.0 (182.8)	67.6 (171.7)	72.0 (182.8)	71.5 (181.6)	71.5 (181.6)	72.0 (182.8)	69.0 (175.3)
Spring Seat Centers (in)/(cm)	32.00 (82.3)	35.0 (89.0)	33.00 (8.38)	33.00 (8.40)	33.00 (8.40)	33.00 (8.40)	33.14 (8.42)
Drop (in)/(cm)	3.74 (9.50)	N/A	3.74 (9.50)	3.74 (9.50)	3.74 (9.50)	3.74 (9.50)	3.50 (8.89)
I-Beam Center Section Depth (in)/(cm)	4.13 (10.5)	N/A	4.13 (10.5)	4.65 (11.8)	4.65 (11.8)	5.53 (14.1)	4.86 (12.3)
Center Section Width (in)/(cm)	3.12 (7.92)	N/A	3.12 (7.92)	3.52 (8.95)	3.52 (8.95)	3.82 (9.70) / 3.94 (10.0)	4.36 (11.1)
Center Section Web (in)/(cm)	0.709 (1.80)	N/A	0.709 (1.80)	.598 (1.52)	.598 (1.52)	0.709 (1.80)	.901 (2.29)
King Pin Length (in)/(cm)	7.15 (18.17)	N/A	7.51 (19.1)	10.4 (26.4)	10.4 (26.4)	10.4 (26.4)	11.2 (28.5)
Thrust Bearing	Tapered Roller	N/A	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller
Tie Rod (Diameter) (in)/(cm)	1.69 (4.31)	1.81 (4.60)	1.62 (4.13) / 1.75 (4.45)	1.75 (4.45)	1.75 (4.45)	1.75 (4.45)	1.75 (4.45)
Tube Wall Thickness (in)/(cm)	.25 (.635)		.25 (.635)	.25 (.635)	.25 (.635)	.25 (.635)	.25 (.635)
Ball Diameter (in)/(cm)	1.38 (3.52)	1.18 (3.00)	1.38 (3.52)	1.38 (3.52)	1.38 (3.52)	1.38 (3.52)	1.63 (4.15)
Ball Stud Adjustment	Automatic	M18x1.5-6G	Automatic	Automatic	Automatic	Automatic	Automatic
Wheel Bearings, Type	Tapered Roller		Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller
King Pin Angles	9.25	4.32	9.25	6.25	6.25	6.25	6.25
Axle Lock Angle	50 or 53	90	53	53	53	53	45
Beam Material	SAE 1045M	SAE 1045M	SAE 1045M	SAE 1045M	SAE 1045M	SAE 1045M	SAE 1045M
Knuckle Material Standard	SAE 4135H		SAE 4135H	SAE 4135H	SAE 4135H	SAE 4135H	SAE 4135H
Inner Bearing Inner Dimension (in)/(cm)	2.16 (5.49)		2.16 (5.49)	2.62 (6.66)	2.62 (6.66)	2.62 (6.66)	3.00 (7.61)
			Outer Dimension (in)/(cm)				
Outer Bearing (in)/(cm)	1.37 (3.49)		1.37 (3.49)	1.75 (4.43)	1.75 (4.43)	1.75 (4.43)	2.25 (5.71)
Inner Dimension (in)/(cm)							
Outer Dimension (in)/(cm)							
U-Bolt Diameter (in)/(cm)	M20						

## TILT-CAB FRONT AXLE AVAILABILITY CHART

S=Standard  
A=Available as RPO

MODELS	FM6 10,000 lbs. (4536 kg)	FS7 12,000 lbs. (5443 kg)	FL3 14,600 lbs. (6622 kg)	FH4 16,000 lbs. (7258)
T6F042	B	A		
T7F042	B	A	A	
T8F042/064		A	B	A

## TILT-CAB FRONT AXLE SPECIFICATIONS

ORDERING CODE	I-Beam			
	FM6	FS7	FL3	FH4
Make	ArvinMeritor	ArvinMeritor	ArvinMeritor	ArvinMeritor
I-Beam Design Type (in)/(cm)	Reversed Elliot	Reversed Elliot	Reversed Elliot	Reversed Elliot
Rated Capacity at Ground lbs./(cm)	10,000 (4536)	12,000 (5443)	14,600 (6622)	16,000 (7260)
King Pin Centers (in)/(cm)	72.00 (182.8)	72.00 (182.8)	72.00 (182.8)	68.5 (174.0)
Spring Seat Centers (in)/(cm)	33.00 (8.40)	33.00 (8.40)	33.00 (8.40)	33.00 (8.40)
Drop (in)/(cm)	3.74 (9.50)	3.74 (9.50)	3.74 (9.50)	3.50 (8.89)
I-Beam Center Section Depth (in)/(cm)	4.65 (11.8)	4.65 (11.8)	5.53 (14.1)	4.86 (12.3)
Center Section Width (in)/(cm)	3.52 (8.95)	3.52 (8.95)	3.82 (9.70) / 3.94 (10.0)	4.36 (11.1)
Center Section Web (in)/(cm)	.598 (1.52)	.598 (1.52)	0.709 (1.80)	0.902 (2.29)
King Pin Length (in)/(cm)	10.4 (26.4)	10.4 (26.4)	10.4 (26.4)	11.2 (28.5)
Thrust Bearing	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller
Tie Rod (Diameter) (in)/(cm)	1.75 (4.45)	1.75 (4.45)	1.75 (4.45)	1.75 (4.45)
Tube Wall Thickness (in)/(cm)	.25 (.635)	.25 (.635)	.25 (.635)	.25 (.635)
Ball Diameter (in)/(cm)	1.38 (3.52)	1.38 (3.52)	1.38 (3.52)	1.38 (3.52)
Ball Stud Adjustment	Automatic	Automatic	Automatic	Automatic
Wheel Bearings, Type	Tapered Roller	Tapered Roller	Tapered Roller	Tapered Roller
King Pin Angles	6.25	6.25	6.25	6.25
Axle Lock Angle	53 for JE3/ 50 for JE4	53 for JE3/ 50 for JE4	50	45
Beam Material	SAE 1045M	SAE 1045M	SAE 1045M	SAE 1045M
Knuckle Material Standard	SAE 4135H	SAE 4135H	SAE 4135H	SAE 4135H
Inner Bearing Inner Dimension (in)/(cm)	2.62 (6.66)	2.62 (6.66)	2.62 (6.66)	3.00 (7.62)
	Outer Dimension (in)/(cm)			
Outer Bearing (in)/(cm)	1.75 (4.43)	1.75 (4.43)	1.75 (4.43)	2.25 (5.71)

## CONVENTIONAL CAB TURNING DIAMETERS

C4500-C5500 Turning Diameter Curb to Curb ft (m) / Wall to Wall ft (m) Max Road Wheel Turning Angle						
Wheelbase		Front Axle 7000 lbs. (3175 kg)				
RPO Code	in (cm)	FM7				
		Curb to Curb		Wall to Wall		Turning Angle
		ft	(m)	ft	(m)	Deg
<b>EC9</b>	128 (325.1)	39.3	12.0	42.7	13.0	50
<b>EG9</b>	152 (386.1)	45.5	13.9	48.8	14.9	50
<b>EC1</b>	166 (421.6)	45.9	14.0	49.2	15.0	53
<b>FPP</b>	169 (492.2)	46.7	14.2	50.0	15.2	53
<b>FNW</b>	176 (447)	48.4	14.8	51.7	15.8	53
<b>EC2</b>	184 (467.4)	50.2	15.3	53.5	16.3	53
<b>EK8</b>	188 (477.5)	51.3	15.6	54.6	16.6	53
<b>EK4</b>	194 (492.7)	52.7	16.1	56.0	17.1	53
<b>EC3</b>	195.5 (496.5)	53.1	16.2	56.4	17.2	53
<b>EK5</b>	206 (523.2)	55.6	17.0	58.9	18.0	53
<b>EC4</b>	213.5 (542.2)	57.4	17.5	60.7	18.5	53
<b>ED7</b>	217 (551.1)	58.2	17.7	61.5	18.8	53
<b>EQ4</b>	229 (581.6)	61.2	18.7	64.2	19.6	53
<b>FRP</b>	235 (596.9)	62.6	19.1	65.8	20.1	53

C4500-C5500 (4 X 4) Turning Diameter Curb to Curb ft (m) / Wall to Wall ft (m) Max Road Wheel Turning Angle						
Wheelbase		Front Axle 8000 lbs. (3629 kg)				
RPO Code	in (cm)	G38				
		Curb to Curb		Wall to Wall		Turning Angle
		ft	(m)	ft	(m)	Deg
<b>EG9</b>	152 (386.1)	48.0	14.6	51.3	15.6	45
<b>FPP</b>	169 (429.3)	52.7	16.1	55.9	17.0	45
<b>FNW</b>	176 (447)	54.6	16.6	57.8	17.6	45
<b>EK8</b>	188 (477.5)	57.8	17.6	61.1	18.6	45
<b>EK4</b>	194 (492.7)	59.5	18.1	62.8	19.1	45
<b>EK5</b>	206 (523.2)	63.2	19.2	66.9	20.4	45
<b>ED7</b>	217 (551.1)	65.8	20.1	69.0	21.0	45
<b>EQ4</b>	229 (581.6)	66.3	20.2	69.6	21.2	45
<b>FRP</b>	235 (596.9)	70.7	21.6	73.9	22.5	45

## CONVENTIONAL CAB TURNING DIAMETERS

C5500 Turning Diameter Curb to Curb ft (m) / Wall to Wall ft (m) Max Road Wheel Turning Angle						
Wheelbase		Front Axle 8000 lbs. (3629 kg)				
RPO Code	in (cm)	FM8				
		Curb to Curb		Wall to Wall		Turning Angle
		ft	(m)	ft	(m)	Deg
<b>FNW</b>	176 (447)	49.4	15.1	52.7	16.1	53
<b>EK8</b>	188 (477.5)	52.4	16.0	55.6	17.0	53
<b>EK4</b>	194 (492.7)	52.6	16.0	55.7	17.0	53
<b>EK5</b>	206 (523.2)	55.4	16.9	58.5	17.8	53
<b>EQE</b>	220 (558.8)	56.7	17.3	59.9	18.3	53
<b>EP5</b>	221.5 (562.6)	56.7	17.3	59.9	18.3	53
<b>EK6</b>	224 (568.9)	57.3	17.5	60.6	18.5	53
<b>EQ4</b>	229 (581.6)	58.8	17.9	62.0	18.9	53
<b>EQ8</b>	233 (591.8)	59.7	18.2	62.9	19.2	53
<b>FRP</b>	235 (596.9)	60.2	18.4	63.3	19.3	53
<b>FXA</b>	239 (607.1)	60.8	18.5	64.1	19.5	53
<b>EQ1</b>	246 (624.8)	62.6	19.1	65.9	20.1	53
<b>ET7</b>	259 (657.9)	65.6	20.0	68.8	21.0	53

C6500-C8500 Turning Diameter Curb to Curb ft (m) / Wall to Wall ft (m) Max Road Wheel Turning Angle						
Wheelbase		Front Axle 8000 lbs. (3629 kg)				
RPO Code	in (cm)	FM8				
		Curb to Curb		Wall to Wall		Turning Angle
		ft	(m)	ft	(m)	Deg
<b>EC9</b>	128 (325.1)	36.9	11.3	40.4	12.3	53
<b>FQT</b>	140 (355.6)	39.8	12.1	43.2	13.2	53
<b>EG9</b>	152 (386.1)	42.7	13.0	46.0	14.0	53
<b>EH8</b>	170 (431.8)	46.9	14.3	50.2	15.3	53
<b>FNW</b>	176 (447)	48.4	14.8	51.7	15.8	53
<b>EK8</b>	188 (477.5)	51.2	15.6	54.5	16.6	53
<b>EK4</b>	194 (492.7)	52.6	16.0	55.9	17.0	53
<b>EK5</b>	206 (523.2)	55.5	16.9	58.8	17.9	53
<b>EL5</b>	212 (538.5)	56.9	17.3	60.2	18.4	53
<b>ED7</b>	217 (551.1)	58.1	17.7	61.4	18.7	53
<b>EK6</b>	224 (569.6)	57.8	17.6	61.0	18.6	53
<b>EQ4</b>	229 (581.6)	58.9	18.0	62.1	18.9	53
<b>EG7</b>	236 (599.4)	60.5	18.4	63.8	19.5	53
<b>ES5</b>	248 (629.9)	63.3	19.3	66.5	20.3	53
<b>EK7</b>	260 (660.4)	66.0	20.1	69.2	21.1	53
<b>EK9</b>	272 (690.9)	68.8	21.0	72.0	22.0	53
<b>EL0</b>	284 (721.4)	71.5	21.8	74.8	22.8	53
<b>EL1</b>	296 (751.6)	74.3	22.7	77.5	23.6	53

## CONVENTIONAL CAB TURNING DIAMETERS

C6500-C8500 Turning Diameter Curb to Curb ft (m) / Wall to Wall ft (m) Max Road Wheel Turning Angle						
Wheelbase		Front Axle 10,000/12,000/14,600 lbs. (4536/5443/6622 kg)				
RPO Code	in (cm)	FM6/FS7/FL3				
		Curb to Curb		Wall to Wall		Turning Angle
		ft	(m)	ft	(m)	Deg
EC9	128 (325.1)	37.2	11.3	41.2	12.6	53
FQT	140 (355.6)	40.9	12.5	44.1	13.4	53
EG9	152 (386.1)	43.9	13.4	47.0	14.3	53
EH8	170 (431.8)	47.3	14.4	50.5	15.4	53
FNW	176 (447)	48.8	14.8	51.9	15.8	53
EK8	188 (477.5)	51.6	15.7	54.8	16.7	53
EK4	194 (492.7)	53.1	16.2	56.2	17.1	53
EK5	206 (523.2)	54.6	16.6	57.7	17.6	53
EL5	212 (538.5)	56.0	17.1	59.1	18.0	53
ED7	217 (551.1)	57.2	17.4	60.2	18.4	53
EK6	224 (569.6)	58.8	17.9	61.9	18.9	53
EQ4	229 (581.6)	59.1	18.0	63.1	19.2	53
EG7	236 (599.4)	61.6	18.8	65.4	19.9	53
ES5	248 (629.9)	64.4	19.6	65.4	19.9	53
EK7	260 (660.4)	66.3	20.2	69.4	21.1	53
EK9	272 (690.9)	69.1	21.1	72.1	22.0	53
EL0	284 (721.4)	71.9	21.9	74.9	22.8	53
EL1	296 (751.6)	74.6	22.7	77.7	23.7	53
EL2 <sup>1</sup>	308 (782.3)	77.0	23.5	80.5	24.5	53

<sup>1</sup>Available only with 12,000 and 14,600 lb. front axles on 8500 Tandem Models

C7500-C8500 Turning Diameter Curb to Curb ft (m) / Wall to Wall ft (m) Max Road Wheel Turning Angle						
Wheelbase		Front Axle 16,000/18,000 <sup>1</sup> lbs. (7258/8165 kg)				
RPO Code	in (cm)	FH4/FS8 <sup>1</sup>				
		Curb to Curb		Wall to Wall		Turning Angle
		ft	(m)	ft	(m)	Deg
FQT	140 (355.6)	45.0	13.7	48.2	14.7	45
EG9	152 (386.1)	48.3	14.7	48.5	14.8	45
EH8	170 (431.8)	51.1	15.6	54.3	16.6	45
FNW	176 (447)	52.7	16.1	55.8	17.0	45
EK8	188 (477.5)	55.8	17.0	58.9	18.0	45
EK4	194 (492.7)	57.4	17.5	60.5	18.4	45
EK5	206 (523.2)	60.0	18.3	63.6	19.4	45
EL5	212 (538.5)	62.1	18.9	65.2	19.9	45
ED7	217 (551.1)	63.4	19.3	66.5	20.3	45
EK6	224 (569.6)	65.3	19.9	68.3	20.8	45
EQ4	229 (581.6)	66.1	20.2	69.2	21.1	45
EG7	236 (599.4)	67.9	20.7	71.0	21.6	45
ES5	248 (629.9)	71.0	21.6	74.1	22.6	45
EK7	260 (660.4)	74.1	22.6	77.2	23.5	45
EK9	272 (690.9)	77.2	23.5	80.4	24.5	45
EL0	284 (721.4)	80.4	24.5	83.4	25.4	45
EL1	296 (751.6)	83.5	25.5	86.6	26.4	45

<sup>1</sup>FS8 front axle not available with FQT, EG7, EK7, EK9, EL0 or EL1 wheelbases on Model C8C042 or EK8 wheelbase on Model C8C064.

**TILT-CAB TURNING DIAMETERS**

Turning Diameter Curb to Curb ft (m)/Wall to Wall ft (m) Max Road Wheel Turning Angle											
Wheelbase	Front Axle						Front Axle				
RPO Code	FM6/FS7						FM6/FS7				
	10,000 lbs. (4,536 kg) /12,000 lbs. (4,443 kg)						10,000 lbs. (4,536 kg) /12,000 lbs. (4,443 kg)				
	&JE3						&JE4				
	Wheelbase	Curb to Curb		Wall to Wall		Turning Degree	Curb to Curb		Wall to Wall		Turning Degree
	In (cm)	ft	(m)	ft	(m)	Deg	ft	(m)	ft	(m)	Deg
<b>EC9</b>	128 (325.1)	37.6	11.5	42.0	12.8	53	38.8	11.8	43.0	13.1	50
<b>FQT</b>	140 (355.6)	40.5	12.4	44.9	13.7	53	41.8	12.7	45.9	14.0	50
<b>EG9</b>	152 (386.1)	43.5	13.3	47.9	14.6	53	44.8	13.7	49.2	15.0	50
<b>EH8</b>	170 (431.8)	46.9	14.3	50.9	15.5	53	48.4	14.8	52.5	16.0	50
<b>EK8</b>	188 (477.5)	51.2	15.6	55.1	16.8	53	52.9	16.1	56.8	17.3	50
<b>EM2</b>	200 (508.0)	54.0	16.5	58.1	17.7	53	55.9	17.0	59.7	18.2	50
<b>EL5</b>	212 (538.5)	55.5	16.9	59.1	18.0	53	57.4	17.5	61.0	18.6	50
<b>EK6</b>	224 (569.0)	58.3	17.8	62.0	18.9	53	60.3	18.4	64.0	19.5	50
<b>EG7</b>	236 (599.4)	61.1	18.6	64.9	19.7	53	63.2	19.3	66.9	20.4	50
<b>ES5</b>	248 (629.9)	64.0	19.5	67.3	20.5	53	66.1	20.2	69.6	21.2	50
<b>EK7</b>	260 (660.4)	65.9	20.1	69.2	21.1	53	68.2	20.8	71.5	21.8	50

Turning Diameter Curb to Curb ft (m)/Wall to Wall ft (m) Max Road Wheel Turning Angle											
Wheelbase	Front Axle						Front Axle				
RPO Code	FL3						FH4				
	14,600 lbs. (6,622 kg)						16,000 lbs. (7,528 kg)				
	&JE4 (only)						&JE4 (only)				
	Wheelbase	Curb to Curb		Wall to Wall		Turning Degree	Curb to Curb		Wall to Wall		Turning Degree
	In (cm)	ft	(m)	ft	(m)	Deg	ft	(m)	ft	(m)	Deg
<b>EC9</b>	128 (325.1)	38.8	11.8	43.0	13.1	50	41.6	12.7	45.9	14.0	45
<b>FQT</b>	140 (355.6)	41.8	12.7	45.9	14.0	50	44.8	13.7	49.2	15.0	45
<b>EG9</b>	152 (386.1)	44.8	13.7	49.2	15.0	50	48.1	14.7	52.5	16.0	45
<b>EH8</b>	170 (431.8)	48.4	14.8	52.5	16.0	50	50.9	15.5	54.8	16.7	45
<b>EK8</b>	188 (477.5)	52.9	16.1	56.8	17.3	50	55.6	17.0	59.7	18.2	45
<b>EM2</b>	200 (508.0)	55.9	17.0	59.7	18.2	50	58.8	17.9	62.7	19.1	45
<b>EL5</b>	212 (538.5)	57.4	17.5	61.0	18.6	50	61.9	18.9	65.6	20.0	45
<b>EK6</b>	224 (569.0)	60.3	18.4	64.0	19.5	50	65.1	19.8	68.6	20.9	45
<b>EG7</b>	236 (599.4)	63.2	19.3	66.9	20.4	50	67.7	20.6	71.2	21.7	45
<b>ES5</b>	248 (629.9)	66.1	20.2	69.6	21.2	50	70.8	21.6	74.1	22.6	45
<b>EK7</b>	260 (660.4)	68.2	20.8	71.5	21.8	50	73.9	22.5	77.1	23.5	45