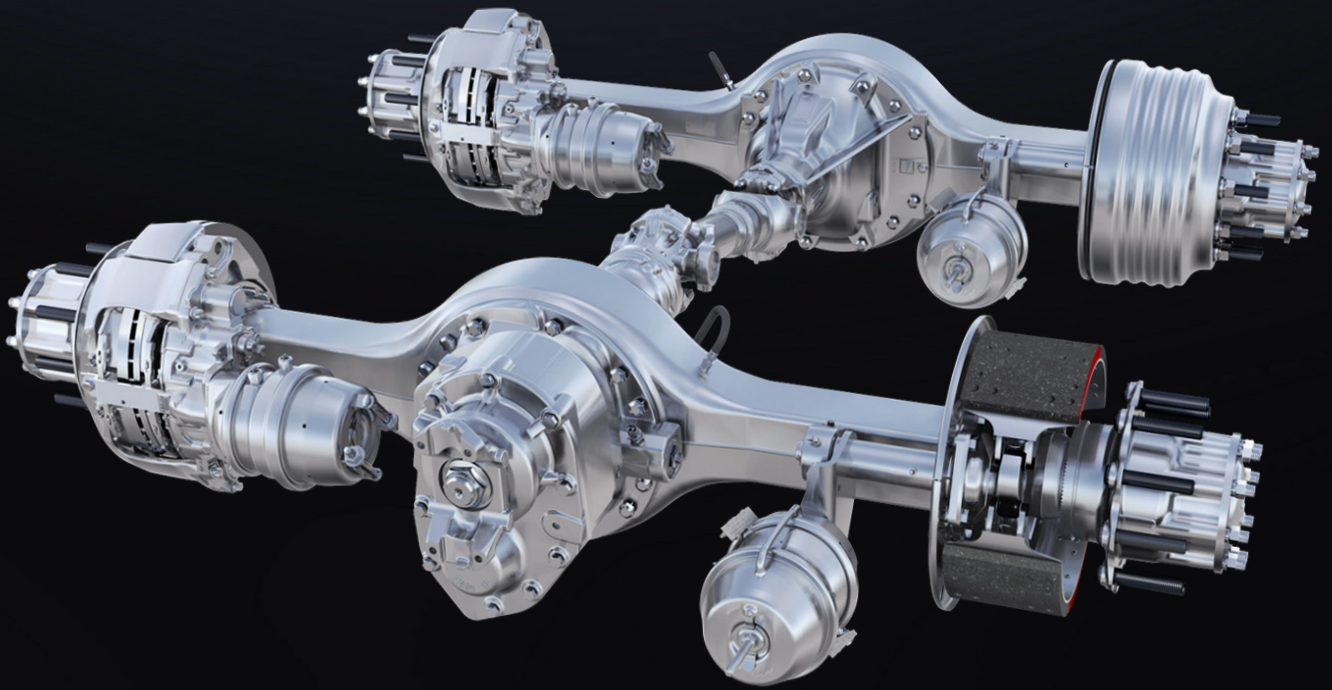


ADVANCED PERFORMANCE.

STEER AND DRIVE AXLES RANGE

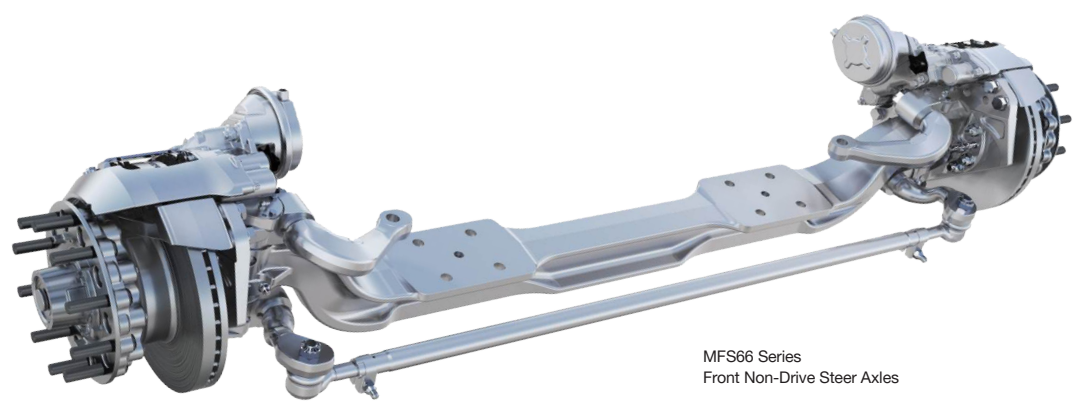


STEER AXLES

The Cummins range of steer axles continue that long running trend by providing great packaging flexibility, optimised performance and reliability. With a wide selection of steering and tie rod arms, wheel base lengths and axle tracks, Cummins offers a wide range of options to spec your vehicle. And because it's backed by the Cummins team, you can count on the industry leading expertise and support in the field and on the road.

NON-DRIVE STEER AXLE SPECIFICATIONS

Model	Rating Tonne	King Pin* intersection mm (inch)	Axle Beam Drop mm (inch)
MFS-66	6.6	1753 (69.0)	88.9 (3.5) & 127 (5.0)
MFS-73	7.3	1753 (69.0)	88.9 (3.5)
MFS-75	7.5	1740 (68.5)	121 (4.76)
FL-941	9.1	1740 (68.5)	88.9 (3.5)



MFS66 Series
Front Non-Drive Steer Axles

Drum Brake		
Steer Axle	Brake Series	Nominal Size mm (inch)
MFS66	Q Plus	419 x 127 (16.5x5)
MFS73, MFS75, FL941	Q Plus	419 x 152 (16.5x6)

Disc Brake		
Disc Type		Wheel Size (inch)
Steer Axle (MFS66, MFS75 only)	EX225H	22.5

All product applications subject to
Cummins engineering approval

DRIVE AXLES

Since 1909, Cummins has been leading the heavy-duty axle market with reliable, long-life axles and advanced gearing technology. With nearly 100 years of axle-producing experience, Cummins is the world's largest independent manufacturer of heavy-duty truck axles for a range of vehicle applications. Products include front axles, single-rear, tandem-drive, tridem-drive and trailer axles. Cummins' complete family of products meets the steer, drive and trailer axle requirements of customers in multiple vocations. Additionally, all products are backed by an excellent sales, service and support network.

REAR DRIVE AXLE SPECIFICATIONS

Axle Model	Ground Rating Pounds (Tonnes)	Housing Wall Thickness mm (inch)	Housing Section at Drive Axle Spring Seat mm (inch)	Carrier Series	Carrier Lube Pump	Crown Wheel Nominal Pitch Dia. mm (inch)	Axle Shaft Dia. mm (inch)	Weight*** kg (lb)
Single Drive Axles								
MS11-165G* (RS23-161G*)	23,000 (11.0)	12.7 (1/2)	117x133 (4.63x5.25)	160	NA	457 (18.0)	57 (2.25)	342 (754)
MC11-165G* (RC23-161G*)	23,000 (11.0)	12.7 (1/2)	117x133 (4.63x5.25)	160	NA	457 (18.0)	57 (2.25)	346 (763)
Tandem Drive Axles								
MT18-14XG* (MT40-14XG*)	40,000 (18.1)	11.0 (7/16)	117x133 (4.63x5.25)	14X	Optional	386 (15.2)	51 (2.00)	635 (1,378)
MT18-14XGP* MT40-14XGP*	40,000 (18.1)	11.0 (7/16)	117x133 (4.63x5.25)	14X	Std - Fwd	386 (15.2)	51 (2.00)	630 (1,389)
MT21-165G** (RT46-160G**)	46,000 (20.9)	12.7 (1/2)	117x133 (4.63x5.25)	160	NA	457 (18.0)	57 (2.25)	775 (1,760)
MT21-165GP* (RT46-160GP*)	46,000 (20.9)	12.7 (1/2)	117x133 (4.63x5.25)	160	Std - Fwd	457 (18.0)	57 (2.25)	805 (1,774)
MT23-168GP* (RT50-160GP*)	50,000 (22.7)	16.0 (5/8)	117x133 (4.63x5.25)	160	Std - Fwd	457 (18.0)	57 (2.25)	819 (1,804)
RT52-185G** (MT24-186G**)	52,000 (23.6)	14.3 (9/16)	140x140 (5.50x5.50)	180	Std - Fwd	498 (19.6)	57 (2.25)	990 (2,182)
RT52-380G (MT24-386G)	52,000 (23.6)	14.3 (9/16)	140x140 (5.50x5.50)	380	Std - Fwd & Rear	498 (19.6)	57 (2.25)	1,002 (2,208)
P610-38****	84,000 (38.0)	16.0 (5/8)	166x177 (6.53x6.97)	100/70	NA	415 (16.3)	45 (1.77)	1,936 (4,268)
Tri-Drive Axles								
RZ78-188G****	78,000 (31.3)	14.3 (9/16)	140x140 (5.50x5.50)	180	Std - Fwd & Middle	498 (19.6)	57 (2.25)	1,584 (3,484.8)
RZ78-388G****	78,000 (31.3)	14.3 (9/16)	140x140 (5.50x5.50)	380	Std - Fwd & Middle	498 (19.6)	57 (2.25)	1,603 (3,526.6)
P610-57****	126,000 (57.0)	16.0 (5/8)	166x177 (6.53x6.97)	100/70	NA	415 (16.3)	45 (1.77)	2,863 (6,315)

*Available with Driver-Controller Locking Main Differential

Subject to Cummins Engineering approval

**Available with Driver-Controller Locking Main Differential in rear-axle only

***Excludes brakes, hubs, drums, seals, drive yokes, suspension brackets, DCDL.

****Does not include wheelend/brakes. Ground rating varies pending wheelend package.

DRIVE AXLES

DRIVE AXLE GEAR RATIO (:1)

Model	Available Ratios
Single Drive Axles	
MC11-165G (RS23-161G)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17
MC11-165G (RC23-161G)	2.50, 2.67, 2.80, 2.93, 3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.13, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17
Tandem Drive Axles	
MT20-14XG (RT40-145G)	2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17
MT20-14XGP (RT40-145GP)	2.64, 3.08, 3.25, 3.36, 3.42, 3.55, 3.70, 3.90, 4.11, 4.33, 4.63, 4.88, 5.29, 5.86, 6.14, 6.43, 6.83, 7.17
MT21-165G (RT46-160G)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17
MT21-165GP (RT46-160GP)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17
MT23-168GP (RT50-160GP)	3.07, 3.21, 3.42, 3.58, 3.73, 3.91, 4.10, 4.30, 4.56, 4.89, 5.38, 5.63, 6.14, 6.43, 6.83, 7.17
RT52-185G (MT24-186G)	3.73, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17
RT52-380G (MT24-386G)	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62
P610-38	3.46, 3.60, 3.77, 4.12, 4.57, 4.67, 5.40, 5.47, 6.19, 7.20, 8.65
Tri-Drive Axles	
RZ78-188G	3.73, 4.30, 4.56, 4.89, 5.38, 6.14, 6.83, 7.17
RZ78-388G	5.52, 6.07, 6.37, 6.75, 7.24, 7.83, 9.14, 10.12, 10.62
P610-57	4.67, 5.40, 5.47, 6.19, 7.20, 8.65

Gear ratios subject to Cummins engineering approval

Drum Brake		
Axle Type	Brake Series	Nominal Size mm (inch)
Drive Axle	Q Plus	419x178 (16.5x7)
	P (Heavy Duty)	419x178 (16.5x7)

Disc Brake		
Brake Type		Wheel Size (inch)
Drive Axle	EX225H	22.5
Drive Axle	ELSA225H	22.5

All product applications subject to Cummins engineering approval

DRIVE AXLES

DRIVE AXLE NOMINAL RATINGS

Axle Model	Ground Rating Pounds (Tonnes)	Engine Limit¹ (ft lb)	Nominal GCM Rating (Tonne)*		
			Highway Operation	B Doubles/ Triples Operation	Road Train Operation ²,³
			Gradients 8% Typical 13% Maximum	Gradients 5% Typical 8% Maximum	Gradients 3% Typical 5% Maximum
Single Drive Axles					
MS11-165G (RS23-161G)	23,000 (11.0)	1,850	36	NA	NA
MC11-165G (RC23-161G)	23,000 (11.0)	1,850	36	NA	NA
Tandem Drive Axles					
MT18-14XG⁴ (MT40-14XG)	40,000 (18.1)	1,650	50	NA	NA
MT18-14XGP⁴ (MT40-14XGP)	40,000 (18.1)	1,650	50	NA	NA
MT20-14XG⁴ (MT44-14XG)	44,000 (20)	1,650	50	NA	NA
MT20-14XGP⁴ (MT44-14XGP)	44,000 (20)	1,650	50	NA	NA
MT21-165G (RT46-160G)	46,000 (20.9)	2,050	80	90	By Eng. Application
MT21-165GP (RT46-160GP)	46,000 (20.9)	2,050	80	90	110
MT23-168GP (RT50-160GP)	50,000 (22.7)	2,050	90	100	131
RT52-185G (MT24-186G)	52,000 (23.6)	2,050	100	110	140
RT52-380G (MT24-386G)	52,000 (23.6)	2,050	120	120	155
P610-38	84,000 (38.0)	2,050	By Eng. Application	By Eng. Application	200
Tri-Drive Axles					
RZ78-188G	78,000 (31)	2,050	By Eng. Application	By Eng. Application	155T
RZ78-388G	78,000 (31)	2,050	By Eng. Application	By Eng. Application	165T
P610-57	126,000 (57.0)	2,050	By Eng. Application	By Eng. Application	250

NOTES

1. Nominal on-highway ratings. For higher engine torques or GCM, refer to Cummins engineering for possible approval
2. For low loader applications use road train at B-Double gradients
3. The GCM ratings apply at legal ground loads (up to 18.1 tonne) not a ground rating
4. 1850 lb-ft (2508 Nm) engine may be approved with straight torque engines up to 50 tonnes

Subject to Cummins engineering approval

GRADEABILITY

An important consideration when selecting the most suitable drive axle ratio for a particular vehicle is the gradeability that can be achieved. Gradeability is the measure of the ability of a vehicle to climb a grade or incline. It is expressed in percent representing the height of the rise from level over a given distance.

For example if a road rises 5 metres over a 100 metre distance it would represent a 5% grade.

There are two measurements of gradeability:

1. Maximum gradeability
2. Starting gradeability (maximum gradeability minus 10%)

Generally speaking, a vehicle should provide at least 10% gradeability to set the vehicle in motion from a standing start on level road. In addition, the vehicle should have sufficient gradeability to climb the steepest grade that will be encountered in operation. For example, if a prime mover will encounter 5% grades on its normal runs, at least 15% (10% starting plus 5% operating) gradeability must be provided. As a general rule maximum gradeability of 30% will provide satisfactory performance in the most extreme operating conditions.

Estimated gradeability can be calculated by substituting values in the following formula:

$$\text{Est. max. gradeability} = \frac{C \times N \times R \times T}{GM} - 1.0$$

Where:

C : Constant for type of rear axle

0.0544 for single axle

0.0533 for single drive tandem

0.0511 for dual drive tandem

N: Tyre revolutions per kilometre

R: Max. gear reduction

(1st gear main transmission ratio x 1st gear auxiliary transmission x largest rear axle ratio)

T: Engine maximum nett torque (Nm)

GM: Total loaded gross mass of vehicle (kg)

USEFUL CONVERSION FACTORS

Distance

1 inch (in) = 25.40 millimetres (mm)

1 millimetre (mm) = 0.03937 inches (in)

1 mile (m) = 1.609 kilometres (km)

1 kilometre (km) = 0.6214 miles (m)

Mass

1 pound (lb) = 0.4536 kilograms (kg)

1 kilogram (kg) = 2.205 pounds (lb)

Speed

1 mile per hour (mph) = 1.609 kilometres per hour (kph)

1 kilometre per hour (kph) = 0.6214 miles per hour (mph)

Volume

1 gallon (UK gal) = 4.546 litres (l)

1 litre (l) = 0.220 gallons (UK gal.)

Torque

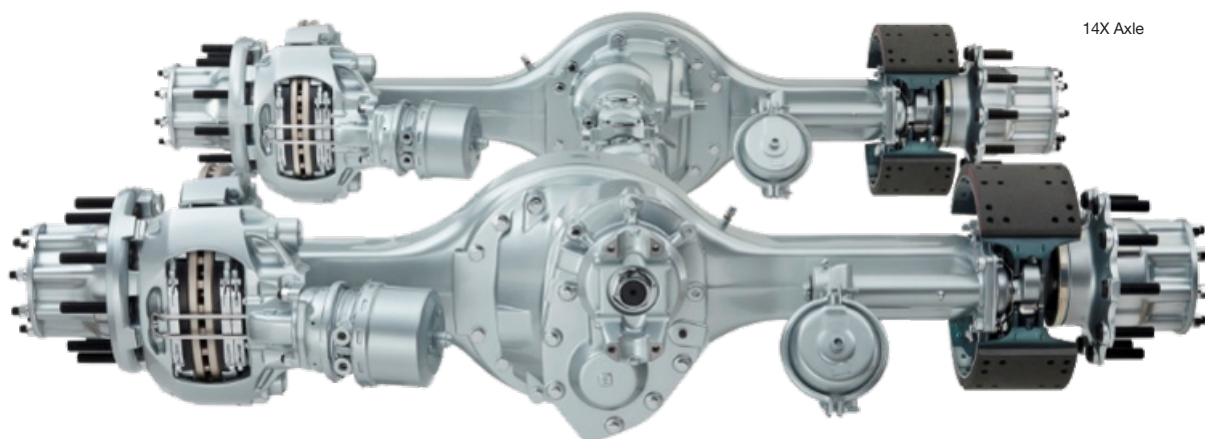
1 pound force per foot (lb ft) = 1.356 Newton Metre (Nm)

1 Newton Metre (Nm) = 0.7375 pound force foot (lb ft)

Power

1 horsepower (hp) = 0.7475 kilowatt (kW)

1 kilowatt (kW) = 1.341 horsepower (hp)



14X Axle

CUMMINS VEHICLE SPEED CHART

ENGINE SPEED (RPM)

	600	700	800	900	1000	1100	1200	1300	1400	1500	1600	1700	1800	1800	2000	2100	2200	2300	2400	2500
2.8	40.8	47.6	54.4	61.2	68	74.8	81.6	88.4	95.2	102	108.8	115.6	122.4	129.3	136.1	142.9	149.7	156.5	163.6	170.1
2.9	39.4	46	52.2	69.1	65.7	72.2	78.8	85.4	92	98.5	105.1	111.7	118.2	124.8	131.4	137.9	144.6	161.1	167.6	164.2
3	38.1	44.4	50.8	57.1	63.5	69.8	76.2	82.5	88.9	95.2	101.6	107.9	114.3	120.6	127	133.3	139.7	146	152.4	168.7
3.1	36.9	43	49.2	63.3	61.4	67.6	73.7	79.9	86	92.2	98.3	104.5	110.6	116.7	122.9	129	135.2	141.3	147.5	153.6
3.2	35.7	41.7	47.6	63.6	59.6	66.5	71.4	77.4	83.3	89.3	96.2	101.2	107.1	113.1	119	125	131	136.9	142.9	148.8
3.3	34.6	40.4	46.2	51.9	57.7	63.5	69.3	75	80.8	86.6	92.4	98.1	103.9	109.7	115.4	121.2	127	132.8	138.5	144.3
3.4	33.6	39.2	44.8	50.4	56	61.6	67.2	72.8	78.4	84	89.6	96.2	100.8	106.4	112	117.6	123.2	128.9	134.5	140.1
3.5	32.7	38.1	43.5	49	54.4	59.9	65.3	70.7	76.2	81.6	87.1	92.5	98	103.4	108.8	114.3	119.7	125.2	130.6	136.1
3.6	31.7	37	42.3	47.6	52.9	68.2	63.5	68.8	74.1	79.4	84.7	89.9	96.2	100.5	105.8	111.1	116.4	121.7	127	132.3
3.7	30.9	36	41.2	46.3	51.5	56.6	61.8	66.9	72.1	77.2	82.4	87.5	92.7	97.8	103	108.1	113.3	118.4	123.6	128.7
3.8	30.1	35.1	40.1	45.1	50.1	55.1	60.2	65.2	70.2	75.2	80.2	86.2	90.2	96.2	100.3	105.3	110.3	115.3	120.3	125.3
3.9	29.3	34.2	39.1	44	48.8	63.7	58.6	63.6	68.4	73.3	78.1	83	87.9	92.8	97.7	102.6	107.4	112.3	117.2	122.1
4	28.6	33.3	38.1	42.9	47.6	52.4	67.1	61.9	66.7	71.4	76.2	81	85.7	90.5	95.2	100	104.8	109.5	114.3	119
4.1	27.9	32.5	37.2	41.8	46.5	51.1	55.7	60.4	65	69.7	74.3	79	83.6	88.3	92.9	97.6	102.2	106.9	111.5	116.1
4.2	27.2	31.7	36.3	40.8	45.4	49.9	54.4	59	63.5	68	72.6	77.1	81.6	86.2	90.7	95.2	99.8	104.3	108.8	113.4
4.3	26.6	31	36.4	39.9	44.3	48.7	53.2	57.6	62	66.4	70.9	75.3	79.7	84.2	88.6	93	97.5	101.9	106.3	110.7
4.4	26	30.3	34.6	39	43.3	47.6	51.9	56.3	60.6	64.9	69.3	73.6	77.9	82.3	86.6	90.9	95.2	99.6	103.9	108.2
4.5	25.4	29.6	33.9	38.1	42.3	46.6	50.8	55	59.3	63.5	67.7	72	76.2	80.4	84.7	88.9	93.1	97.4	101.6	105.8
4.6	24.8	29	33.1	37.3	41.4	45.5	49.7	53.8	58	62.1	66.3	70.4	74.5	78.7	82.8	87	91	95.2	99.4	103.5
4.7	24.3	28.4	32.4	36.5	40.5	44.6	48.6	52.7	56.7	60.8	64.8	68.9	72.9	77	81.1	85.1	89.2	93.2	97.3	101.3
4.8	23.8	27.8	31.7	35.7	39.7	43.7	47.6	51.6	65.6	59.5	63.5	67.5	71.4	75.4	79.4	83.3	87.3	91.3	95.2	99.2
4.9	23.3	27.2	31.1	35	38.9	42.8	46.6	50.6	54.4	58.3	62.2	66.1	70	73.9	77.7	81.6	85.5	89.4	93.3	97.2
5	22.9	26.7	30.5	34.3	38.1	41.9	45.7	49.5	53.3	57.1	61	64.8	68.6	72.4	76.2	80	83.8	87.6	91.4	95.2
5.1	22.4	26.1	29.9	33.6	37.3	41.4	44.8	48.6	52.3	56	59.8	63.5	67.2	71	74.7	78.4	82.2	86.9	89.6	93.4
5.2	22	25.6	29.3	33	36.6	40.3	44	47.6	51.3	54.9	58.6	62.3	65.9	69.6	73.3	76.9	80.6	84.2	87.9	91.6
5.3	21.6	25.2	28.8	32.3	35.9	39.5	43.1	46.7	50.3	53.9	57.5	61.1	64.7	68.3	71.9	76.5	79.1	82.7	86.3	89.8
5.4	21.2	24.7	28.2	31.7	35.3	38.8	42.3	45.9	49.4	52.9	56.4	60	63.5	67	70.5	74.1	77.6	81.1	84.7	88.2
5.5	20.8	24.2	27.7	31.2	34.6	38.1	41.6	45	48.5	51.9	55.4	58.9	62.3	65.8	69.3	72.7	76.2	79.7	83.1	86.6
5.6	20.4	23.8	27.2	30.6	34	37.4	40.8	44.2	47.6	51	54.4	57.8	61.2	64.6	68	71.4	74.8	78.2	81.6	86
5.7	20.1	23.4	26.7	30.1	33.4	36.8	41.1	43.4	46.8	50.1	53.5	56.8	60.2	63.5	66.8	70.2	73.5	76.9	80.2	83.6
5.8	19.7	23	26.3	29.6	32.8	36.1	39.4	42.7	46	49.3	52.5	55.8	59.1	62.4	65.7	69	72.2	75.5	78.8	82.1
6.9	19.4	22.6	25.8	29.1	32.3	35.5	38.7	42	45.2	48.4	61.7	54.9	58.1	61.3	64.6	67.8	71	74.3	77.6	80.7
6	19	22.2	26.4	28.6	31.7	34.9	38.1	41.3	44.4	47.6	50.8	54	57.1	60.3	63.5	66.7	69.8	73	76.2	79.4
6.1	18.7	21.9	25	28.1	31.2	34.3	37.5	40.6	43.7	46.8	50	53.1	56.2	59.3	62.5	65.6	68.7	71.8	74.9	78.1
6.2	18.4	21.5	24.6	27.6	30.1	33.8	36.9	39.9	43	46.1	49.2	52.2	55.3	58.4	61.4	64.5	67.6	70.7	73.7	76.8
6.3	18.1	21.2	24.2	27.2	30.2	33.3	36.3	39.3	42.3	45.4	48.8	51.4	54.4	57.4	60.6	63.5	66.5	69.5	72.6	75.6
6.4	17.9	20.8	23.8	26.8	29.8	32.7	35.7	38.7	41.7	44.6	47.6	50.6	53.6	56.5	59.5	62.5	66.5	68.6	71.4	74.4
6.6	17.6	20.6	23.4	26.4	29.3	32.2	35.2	38.1	41	44	46.9	49.8	52.7	66.7	68.6	61.5	64.5	67.4	70.3	73.3
6.6	17.3	20.2	23.1	26	28.9	31.7	34.6	37.5	40.4	43.3	46.2	49.1	51.9	54.8	67.7	60.6	63.5	66.4	69.3	72.2
6.7	17.1	19.9	22.7	25.6	28.4	31.3	34.1	37	39.8	42.6	45.5	48.3	51.2	54	66.9	59.7	62.5	65.4	68.8	71.1
6.8	16.8	19.6	22.4	25.2	28	30.8	33.6	36.4	39.2	42	44.8	47.6	50.4	53.2	56	58.8	61.6	64.4	67.2	70.2
6.9	16.6	19.3	22.1	24.8	27.6	30.4	33.1	35.9	38.6	41.4	44.2	46.9	49.7	52.4	55.2	68	60.7	63.6	66.3	69
7	16.3	19	21.8	24.5	27.2	29.9	32.7	35.4	38.1	40.8	43.5	46.3	49	51.7	64.4	57.1	59.9	62.6	66.3	68
7.1	16.1	18.8	21.5	24.1	26.8	29.5	32.2	34.9	37.6	40.2	42.9	45.6	48.3	51	53.7	56.3	59	61.7	64.4	67.1
7.2	15.9	18.5	21.2	23.8	26.5	29.1	31.7	34.4	37	39.7	42.3	45	47.6	50.3	52.9	55.6	58.2	60.8	63.5	66.1

AXLE RATIO

USEFUL CONVERSION FACTORS

A vehicle's road speed is determined by engine r.p.m., transmission and drive axle reduction ratio, and vehicle tyre size. The **CUMMINS VEHICLE SPEED CHART** assists in selecting the most suitable axle ratio for particular vehicle applications.

Calculations are based on the transmission(s) being in direct drive and the ability of the engine to run at a given r.p.m. The terrain, engine power, air resistance, tyre rolling resistance and vehicle load are not taken into consideration.

Table 1

Tyre Designation			Revolutions per km	Tyre Size Factor
9x20	9R20		325	0.97
10x20	10R20	11R22.5	315	1.00
10x22	10R22	11R24.5	300	1.05
11x20	11R20	12R22.5	310	1.02
11x22	11R22		295	1.07
275/80 R 22.5			320	0.95
295/80 R 22.5			320	0.98

Note: The chart is based on a tyre size of 10 x 20, 1 OR20 or 11 R22.5. These rotate at approximately 315 revolutions per kilometre. To determine the vehicle speed for other sizes of tyre, simply multiply the vehicle speed by the tyre size correction factor as per Table 1. For transmissions operating in ratios other than direct drive, vehicle road speed can be calculated by dividing the vehicle speed obtained from the chart by the transmission ratio.

To illustrate some typical uses of the **CUMMINS VEHICLE SPEED CHART** some examples are shown below:

- A vehicle with governed engine speed of 1800 r.p.m. and with 11 R22-5 tyres is desired to have a maximum road speed of 104 k.p.h.

From the 1800 r.p.m. column of the chart, it can be seen that for a vehicle speed of 103.9 k.p.h. a 3.3. axle ratio is necessary.

- A vehicle with 1 OR20 tyres has a maximum speed of 95.0 k.p.h. If the vehicle is now fitted with 11 R20 tyres the maximum speed can be calculated by taking into consideration the different tyre size factors.

New maximum speed is equal to:

$$95.0 \times \frac{1.02}{1.00} = 96.9 \text{ k.p.h.}$$

Where 1 .00 is tyre size factor for 1 OR20 tyres and 1 .02 is tyre size factor for 11 R20 tyres

- A 0.87 overdrive transmission is fitted to a vehicle with 3.7 axle ratio and 2100 r.p.m. engine. The maximum speed of the vehicle can be calculated by taking into consideration the overdrive ratio. For the 0.87 overdrive transmission the vehicle speed would be:

$$108.1 \times \frac{1}{0.87} = 124.3 \text{ k.p.h.}$$

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Meritor Heavy Vehicle Systems Australia
50 Calarco Drive
Derrimut, VIC 3026
AUSTRALIA

(03) 8353 6050

meritorpartsexpress.com

CVSCAT01-AXLES 07/24
Produced in AUS 07/24
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