Dodge HXT Reducers: From Confusion to Clarity

When a customer wants to use a hydraulic motor instead of an electric motor to drive a shaft mount reducer, Dodge offers the HXT reducer as a variation of the TXT reducer. While most of what Dodge sells are TXT reducers to be used with electric motors, there are many questions that come up about HXT reducers and hydraulic motors. The intent of this white paper is to answer most of these questions.

1. **What's the difference between a TXT and HXT reducer?**
   While the TXT reducer has an input shaft that a sheave is installed on, the HXT reducer uses a shorter female splined input shaft and has a motor adapter bolted to the housing around the input shaft. This allows the use of a hydraulic motor that has the matching male spline, mounting pilot, and bolt pattern. This spline and/or motor adapter may change depending on reducer size, ratio, or motor type.

2. **Does Dodge sell a HXT reducer that can accommodate a hydraulic motor that a solid shaft with a key?**
   Dodge **does not** sell any HXT reducers that will accommodate a hydraulic motor that has a solid shaft with a key. The HXT reducers and their input configurations were designed many years ago using involute or SAE 6B splines. Figures 1-4 shows these four configurations. These four input variation that Dodge offers.

3. **What other differences are there from one HXT reducer to another?**
   A HXT reducer may vary from another HXT reducer by having a different spline, motor adapter configuration, or other features (straight bore or tapered bushed, a tie rod included or flange mount, etc). In general, as the case size and torque increases, the spline and motor adapter get larger. See Figures 5-6 and Table 1.

4. **Does a HXT reducer comes as a tapered bushed reducer?**
   The tapered bushed output is the most popular configuration for HXT shaft mounted reducers. It uses two tapered flanged bushings to lock the reducer to the shaft. See Figure 6. It is available in all HXT sizes/ratios. (see Table 1)

5. **Does a HXT reducer comes as a straight bore reducer?**
   A customer can use a straight bore reducer if they have a shorter shaft, however, these reducers are harder to remove from the shaft than the tapered bushed gearboxes. The straight bore reducers use setscrews to tighten the reducer to the customer's shaft. See Figure 5. It is available in most HXT sizes/ratios. (see Table 1)

6. **Does an HXT reducer come with a tie rod?**
   Yes, if the HXT reducer is not a flange mounted reducer. A tie rod prevents the gearbox from spinning around when power is applied to the gearbox. This tie rod is bolted to the reducer on one side and to the customer's structure on the other side. Figure 7 shows an HXT reducer with a tie rod. The majority of HXT reducers that Dodge offers will come with a tie rod.

864-284-5700 | engineering@dodgeindustrial.com | 1061 Holland Road, Simpsonville, SC 29681 USA | **dodgeindustrial.com**

7. **Can a HXT reducer be a flange mounted reducer?**
   Figure 8 shows a HXT reducer not using the tie rod but using a flange mount reducer. The flange mount reducer has additional holes mounted in the housing half opposite the motor. This can be bolted directly to the customer's structure. Flange mounted reducers are used mainly in mixing applications. Very few HXT reducers are setup as flange mount.

8. **Does Dodge supply hydraulic motors to use with HXT reducers?**
   Dodge can provide one of five hydraulic vane motors to use with some of our HXT reducers. They are the A10, A20, B30, B40, and B50 motors. These motors were specifically chosen to be used with the HXT reducers. See Table 1 for what motors can be used with what reducers. Also, you can refer to the Torque-Arm Family Catalog for running parameters (pressure, GPM, etc) for these motors and HXT gearboxes.

9. **What does an interchange from a competitor gearbox require?**
   a. **Ratings of the old gearbox –** The ratings from the old gearbox can be compared to Table 1 for a prospective HXT reducer. If a rating is required for a known output rpm (not listed in Table 1), please contact Dodge. Note that all ratings tables are not created equal. The ratings table in Table 1 also takes thermal ratings (especially at higher speeds) into consideration; some other manufacturers don't account for this. Dodge also evaluates bearings and gearing to higher standards than some other gearbox manufacturers.
   b. **Shaft size gearbox is installed on –** Table 1 lists the AGMA (max) bore for all the HXT reducers. Bushing kits are available for small shaft sizes; the Torque-Arm Family Catalog can be reviewed for available bushing kits for a certain reducer.
   c. **Amount of shaft length available for mounting –** Depending on the length of the customer shaft available to mount, a HXT straight bore reducer may be required. If there is enough shaft length available, then a HXT tapered bushed reducer is recommended because of installation/removal of the gearbox on/off the shaft (plus there is more availability with tapered bushed reducers)
   d. **Current motor shaft and mounting flange configuration -** An interchange from a competitor gearbox will sometimes require a motor change because of a different shaft or mounting flange configuration.

10. Can a customer use a particular motor with a Dodge HXT reducer?

Not only does the motor have to have the same spline and input configuration as the HXT reducer, but it is also best to check the maximum torque and speed of the motor. This is a function of the displacement of the motor, the hydraulic pressure drop across the motor, and the hydraulic flow rate to the motor. A hydraulic motor with a large displacement could overload a HXT gearbox that does not have a pressure relief valve in the system to limit the pressure across the motor.

Example:

A customer has a Char-Lynn 109-1287-006 hydraulic motor and wants to use it with a HXT reducer with a 25:1 ratio. The customer needs 45,000 in-lb of torque at 10 rpm on their 3-7/16" conveyor shaft.

Solution:
Looking at that Char-Lynn motor, it has a max continuous speed of 582 rpm, a max continuous torque of 4290 in-lb at a max pressure of 3,000 psi. With this max speed and max torque, a 25:1 reducer can be used with this motor to get to the required torque at 10 rpm.

To fit on a 3-7/16" shaft size, the 25:1 reducer would have to be a HXT625 or HXT725. Any reducers smaller than this do not have bushings large enough for that shaft size. Looking at Table 1, a HXT625 is rated for 45,427 in-lb of output torque at 10rpm out and a HXT725 is rated 63,543 in-lb of output torque at 10 rpm out. The HXT625 is rated for the required torque but only provides a 1.01 service factor. The HXT725 would be a better selection because of the higher service factor of 1.41. Contact Dodge for any discussion on application service factors.

Using the HXT725 (actual ratio of 24.59) at 10 rpm and 45,000 in-lb would correspond to the motor running at 246 rpm and generating 1830 in-lb of torque. Looking at the information for the Char-Lynn motor, this would correspond to around 11 gallons per minute at 1250 psi. A pressure relief valve would be needed to be set at a slightly higher pressure than this to try to ensure that the gearbox will not see too much torque in an overloaded condition.

Both this motor and the HXT725 gearbox (247165 or 247173) have the same mating 14 tooth (12/24 pitch) spline and a 4 bolt SAE "C" mounting pattern.

864-284-5700 | engineering@dodgeindustrial.com | 1061 Holland Road, Simpsonville, SC 29681 USA | dodgeindustrial.com

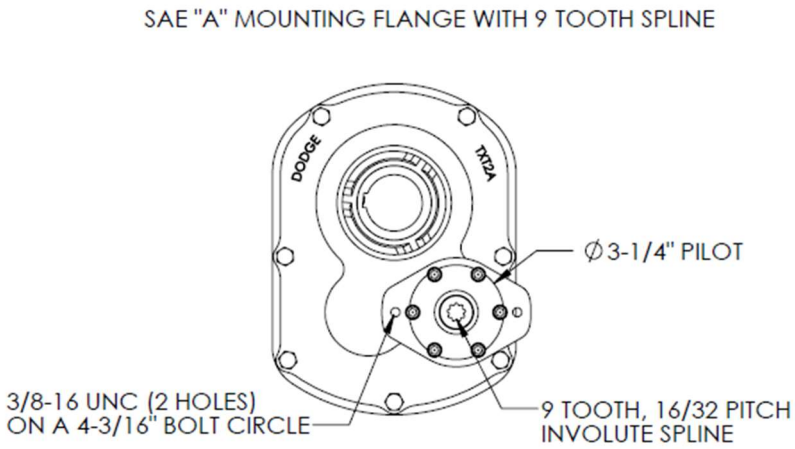

Figure 1: SAE "A" Mounting Flange-2 Bolt (3/8" bolts) with 9 tooth spline

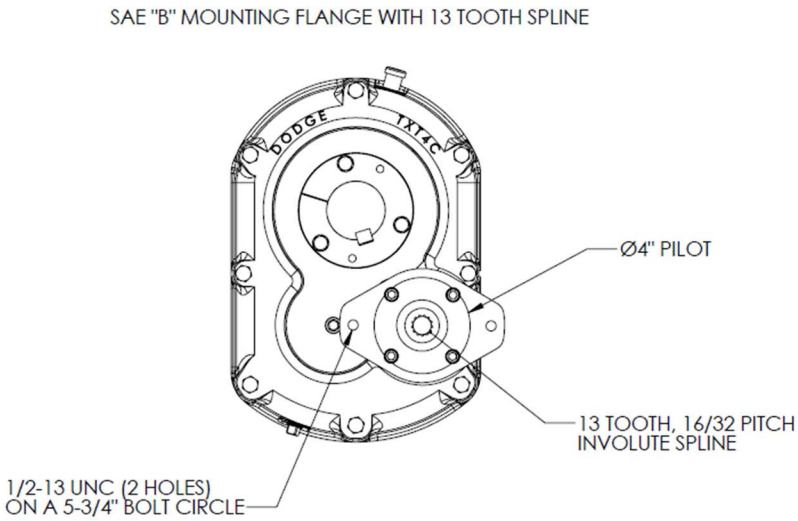

Figure 2: SAE "B" Mounting Flange -2 Bolt (1/2" bolts) with 13 tooth spline

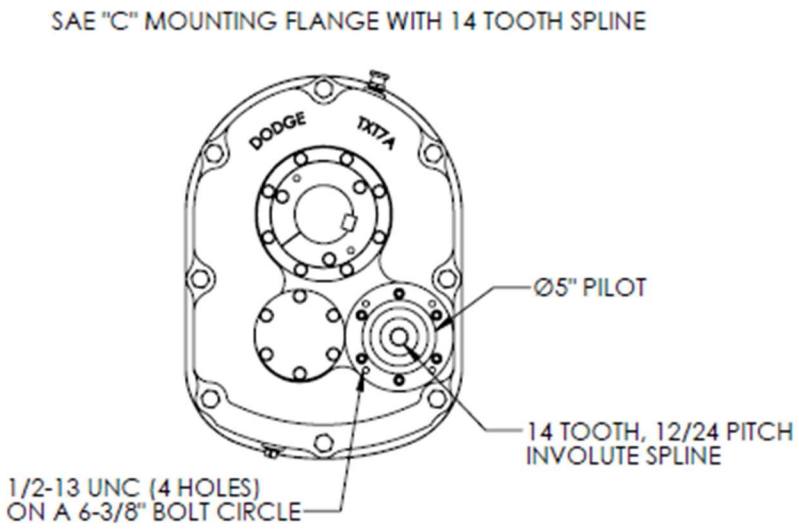

Figure 3: SAE "C" Mounting Flange- 4 Bolt (1/2" bolts) with 14 tooth spline

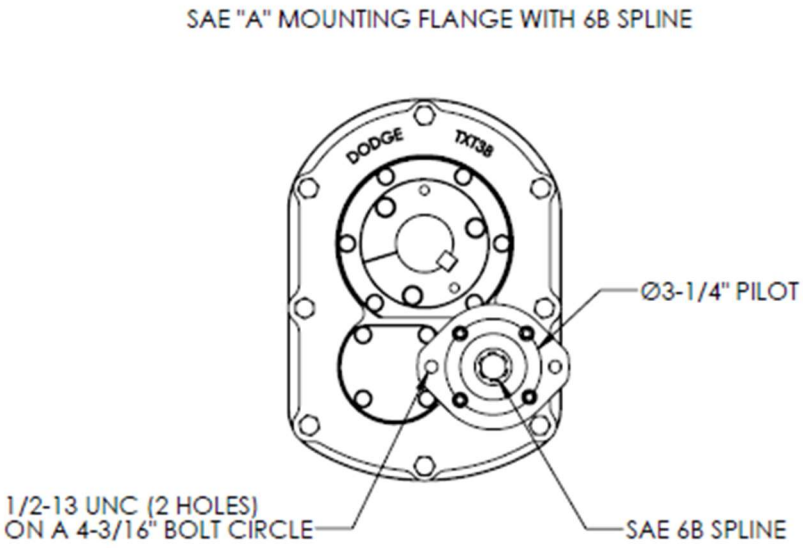

Figure 4: SAE "A" Mounting Flange -2 Bolt (1/2" bolts) with SAE 6B spline

864-284-5700 | engineering@dodgeindustrial.com | 1061 Holland Road, Simpsonville, SC 29681 USA | **dodgeindustrial.com**

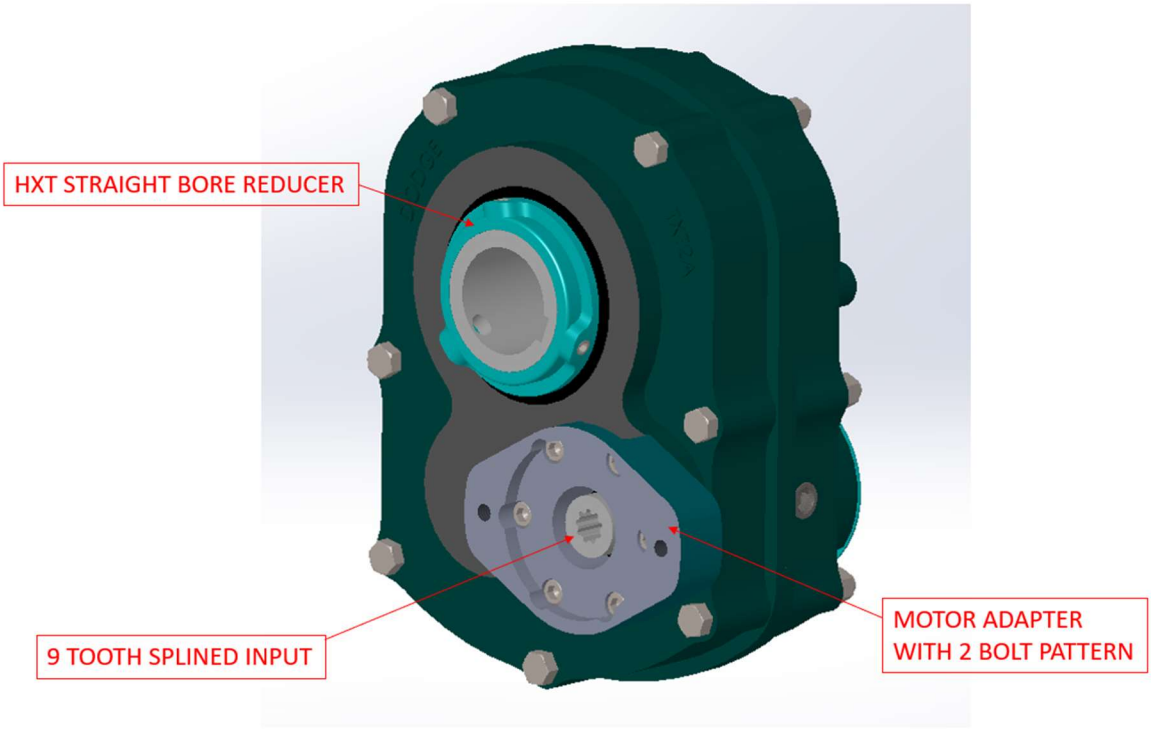

Figure 5: HXT Straight Bore Reducer

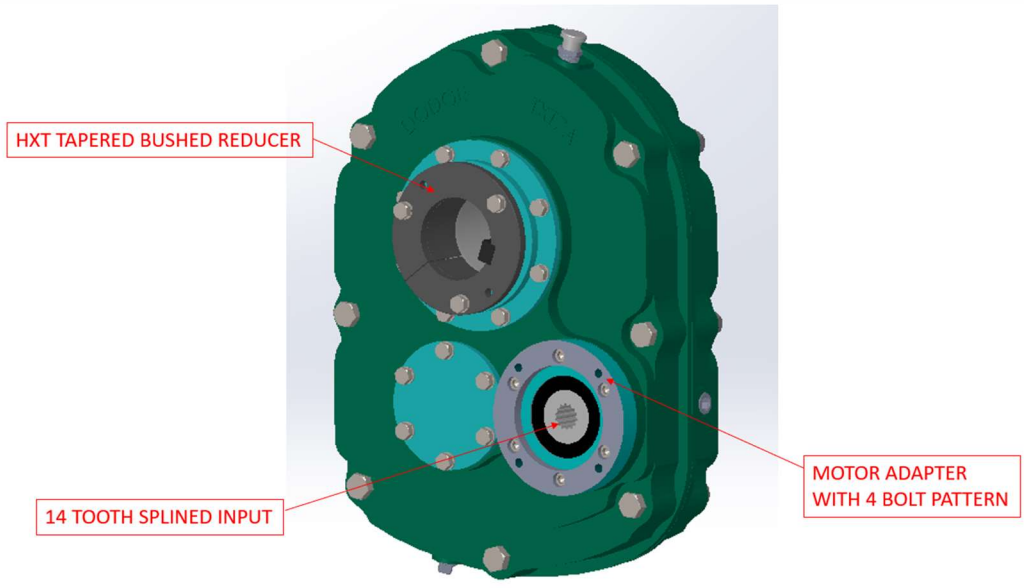

Figure 6: HXT Tapered Bushed Reducer

864-284-5700 | engineering@dodgeindustrial.com | 1061 Holland Road, Simpsonville, SC 29681 USA | **dodgeindustrial.com**

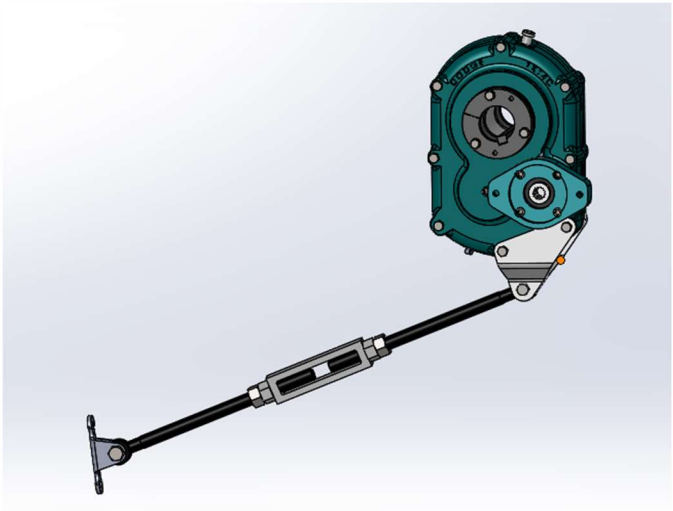

Figure 7: HXT Reducer with Tie Rod (Not Flange Mount)

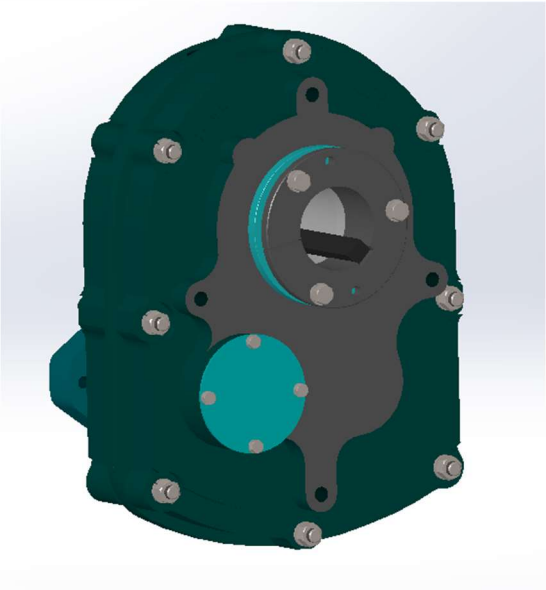

Figure 8: HXT Flange Mounted Reducer (milled surface/tapped holes in RH housing)

TABLE 1: AVAILABLE HXT REDUCERS (Contact Dodge for availability/pricing)

HXT105

AGMA Gearbox Size: 107 (Max shaft size that it can be mounted on is 1-7/16")
Actual Ratio: 5.62:1
Class 1 Continuous Torque Rating (at 90 rpm out): 2801 in-lb
Class 1 Continuous Torque Rating (at 400 rpm out): 1324 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
241085	HXT105	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
241089	HXT105	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
251140	HXT105	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4

HXT115

AGMA Gearbox Size: 107 (Max shaft size that it can be mounted on is 1-7/16")
Actual Ratio: 15.35:1
Class 1 Continuous Torque Rating (at 10 rpm out): 4053 in-lb
Class 1 Continuous Torque Rating (at 140 rpm out): 2953 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
241069	HXT115	Tapered	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
241077	HXT115	Straight	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1

HXT125

AGMA Gearbox Size: 107 (Max shaft size that it can be mounted on is 1-7/16")
Actual Ratio: 25.64:1
Class 1 Continuous Torque Rating (at 10 rpm out): 4053 in-lb
Class 1 Continuous Torque Rating (at 85 rpm out): 3168 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
241070	HXT125	Tapered	No	A10	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
241078	HXT125	Straight	No	A10	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
964686	HXT125	Straight	Yes	A10	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1

HXT205

AGMA Gearbox Size: 115 (Max shaft size that it can be mounted on is 1-15/16")
Actual Ratio: 5.29:1
Class 1 Continuous Torque Rating (at 90 rpm out): 4733 in-lb
Class 1 Continuous Torque Rating (at 400 rpm out): 2171 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
242251	HXT205	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
242255	HXT205	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
252140	HXT205	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4

HXT215

AGMA Gearbox Size: 115 (Max shaft size that it can be mounted on is 1-15/16")
Actual Ratio: 14.10:1
Class 1 Continuous Torque Rating (at 10 rpm out): 7311 in-lb
Class 1 Continuous Torque Rating (at 140 rpm out): 5357 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
242086	HXT215	Tapered	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
242094	HXT215	Straight	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1

HXT225

AGMA Gearbox Size: 115 (Max shaft size that it can be mounted on is 1-15/16")
Actual Ratio: 23.46:1
Class 1 Continuous Torque Rating (at 10 rpm out): 7311 in-lb
Class 1 Continuous Torque Rating (at 85 rpm out): 5744 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
242087	HXT225	Tapered	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
242095	HXT225	Straight	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1

HXT305

AGMA Gearbox Size: 203 (Max shaft size that it can be mounted on is 2-3/16")
Actual Ratio: 5.29:1
Class 1 Continuous Torque Rating (at 90 rpm out): 7072 in-lb
Class 1 Continuous Torque Rating (at 400 rpm out): 2363 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
253153	HXT305	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
253157	HXT305	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
253140	HXT305	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4

HXT309

AGMA Gearbox Size: 203 (Max shaft size that it can be mounted on is 2-3/16")
Actual Ratio: 8.91:1
Class 1 Continuous Torque Rating (at 80 rpm out): 9610 in-lb
Class 1 Continuous Torque Rating (at 200 rpm out): 4317 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
243506	HXT309	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
243518	HXT309	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2

HXT315

AGMA Gearbox Size: 203 (Max shaft size that it can be mounted on is 2-3/16")
Actual Ratio: 14.88:1
Class 1 Continuous Torque Rating (at 10 rpm out): 11,081 in-lb
Class 1 Continuous Torque Rating (at 140 rpm out): 6753 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
243507	HXT315	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
243519	HXT315	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2

HXT325

AGMA Gearbox Size: 203 (Max shaft size that it can be mounted on is 2-3/16")
Actual Ratio: 24.71:1
Class 1 Continuous Torque Rating (at 10 rpm out): 11,081 in-lb
Class 1 Continuous Torque Rating (at 85 rpm out): 9476 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
243508	HXT325	Tapered	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
243520	HXT325	Straight	No	A20	Spline - 9 tooth, 16/32 DP	SAE "A" 2 Bolt	1
243571	HXT325	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4

HXT405

AGMA Gearbox Size: 207 (Max shaft size that it can be mounted on is 2-7/16")
Actual Ratio: 5.65:1
Class 1 Continuous Torque Rating (at 90 rpm out): 12,387 in-lb
Class 1 Continuous Torque Rating (at 400 rpm out): 2679 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
254202	HXT405	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
254206	HXT405	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
254140	HXT405	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
963356	HXT405	Tapered	Yes	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4

HXT409

AGMA Gearbox Size: 207 (Max shaft size that it can be mounted on is 2-7/16")
Actual Ratio: 9.67:1
Class 1 Continuous Torque Rating (at 80 rpm out): 14,807 in-lb
Class 1 Continuous Torque Rating (at 200 rpm out): 4412 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
244531	HXT409	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
244543	HXT409	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2

HXT415

AGMA Gearbox Size: 207 (Max shaft size that it can be mounted on is 2-7/16")
Actual Ratio: 15.13:1
Class 1 Continuous Torque Rating (at 10 rpm out): 16,827 in-lb
Class 1 Continuous Torque Rating (at 140 rpm out): 8103 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
244532	HXT415	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
244544	HXT415	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
244556	HXT415	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
244559	HXT415	Straight	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
963875	HXT415	Tapered	Yes	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2

HXT425

AGMA Gearbox Size: 207 (Max shaft size that it can be mounted on is 2-7/16")
Actual Ratio: 24.38:1
Class 1 Continuous Torque Rating (at 10 rpm out): 16,827 in-lb
Class 1 Continuous Torque Rating (at 85 rpm out): 14,540 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
244533	HXT425	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
244545	HXT425	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
244557	HXT425	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
244560	HXT425	Straight	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
963355	HXT425	Tapered	Yes	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2

HXT505

AGMA Gearbox Size: 215 (Max shaft size that it can be mounted on is 2-15/16")
Actual Ratio: 5.67:1
Class 1 Continuous Torque Rating (at 90 rpm out): 15,321 in-lb
Class 1 Continuous Torque Rating (at 400 rpm out): 2836 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
255202	HXT505	Tapered	No	B50	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
255206	HXT505	Straight	No	B50	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
255160	HXT505	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4

HXT509

AGMA Gearbox Size: 215 (Max shaft size that it can be mounted on is 2-15/16")
Actual Ratio: 8.95:1
Class 1 Continuous Torque Rating (at 80 rpm out): 16,544 in-lb
Class 1 Continuous Torque Rating (at 200 rpm out): 4727 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
245556	HXT509	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
245568	HXT509	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3

HXT515

AGMA Gearbox Size: 215 (Max shaft size that it can be mounted on is 2-15/16")
Actual Ratio: 15.40:1
Class 1 Continuous Torque Rating (at 10 rpm out): 28,606 in-lb
Class 1 Continuous Torque Rating (at 125 rpm out): 9076 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
245557	HXT515	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
245569	HXT515	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
963781	HXT515	Straight	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
963876	HXT515	Tapered	Yes	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3

HXT525

AGMA Gearbox Size: 215 (Max shaft size that it can be mounted on is 2-15/16")
Actual Ratio: 25.56:1
Class 1 Continuous Torque Rating (at 10 rpm out): 28,606 in-lb
Class 1 Continuous Torque Rating (at 80 rpm out): 18,514 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
245558	HXT525	Tapered	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
245570	HXT525	Straight	No	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2
245640	HXT525	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
963903	HXT525	Tapered	Yes	B30	Spline - 13 tooth, 16/32 DP	SAE "B" 2 Bolt	2

HXT615

AGMA Gearbox Size: 307 (Max shaft size that it can be mounted on is 3-7/16")
Actual Ratio: 15.33:1
Class 1 Continuous Torque Rating (at 10 rpm out): 45,427 in-lb
Class 1 Continuous Torque Rating (at 125 rpm out): 10,084 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
246154	HXT615	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
246162	HXT615	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3

HXT625

AGMA Gearbox Size: 307 (Max shaft size that it can be mounted on is 3-7/16")
Actual Ratio: 25.13:1
Class 1 Continuous Torque Rating (at 10 rpm out): 45,427 in-lb
Class 1 Continuous Torque Rating (at 80 rpm out): 29,622 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
246155	HXT625	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
246163	HXT625	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
246520	HXT625	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
246168	HXT625	Straight	Yes	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3

HXT715

AGMA Gearbox Size: 315 (Max shaft size that it can be mounted on is 3-15/16")
Actual Ratio: 15.23:1
Class 1 Continuous Torque Rating (at 10 rpm out): 63,543 in-lb
Class 1 Continuous Torque Rating (at 120 rpm out): 18,382 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
247172	HXT715	Straight	No	B50	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
247164	HXT715	Tapered	No	B50	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3

HXT725

AGMA Gearbox Size: 315 (Max shaft size that it can be mounted on is 3-15/16")
Actual Ratio: 24.59:1
Class 1 Continuous Torque Rating (at 10 rpm out): 63,543 in-lb
Class 1 Continuous Torque Rating (at 75 rpm out): 44,958 in-lb
Other speeds, Contact Dodge

Part #	Size	Tapered or Straight Bore on Output	Flange Mount (Yes or No)	Dodge Motor that can be used	Input Pinion Connection	Motor Adapter Specifics	Figure # showing input configuration
247173	HXT725	Straight	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
247519	HXT725	Straight	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4
247165	HXT725	Tapered	No	B40	Spline - 14 tooth, 12/24 DP	SAE "C" 4 Bolt	3
247520	HXT725	Tapered	No	N/A	Spline - SAE 6B	SAE "A" 2 Bolt	4