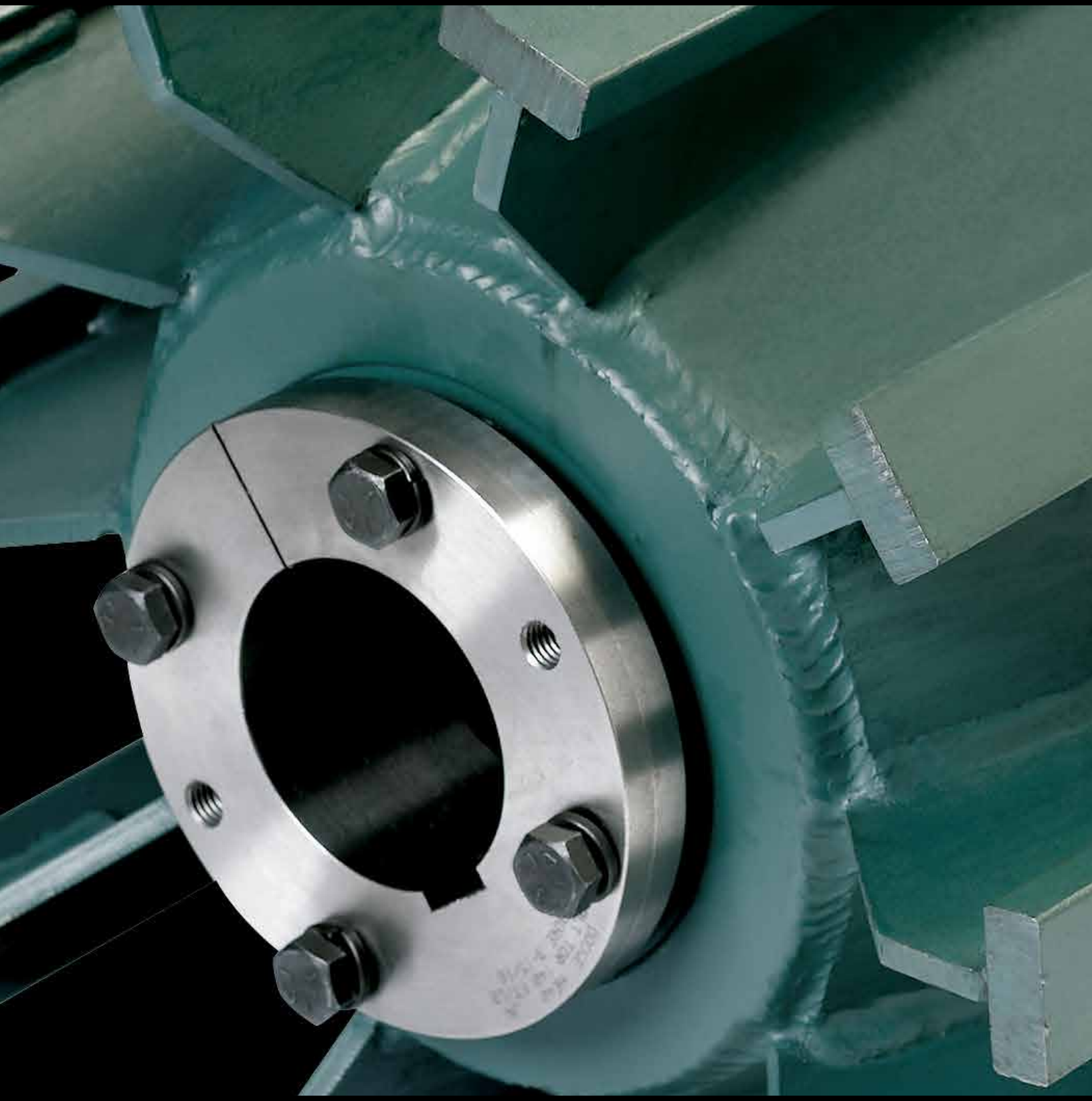
# Dodge Wing Pulleys

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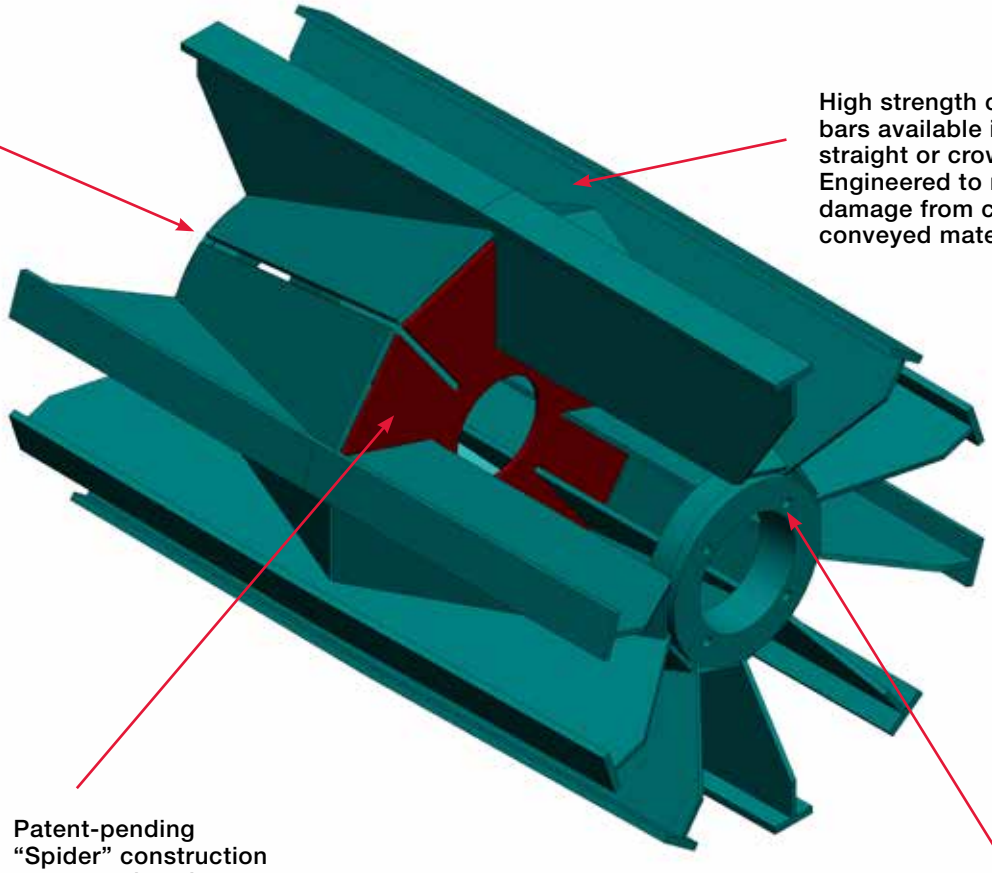
A MEMBER OF THE ABB GROUP

# Wing Pulleys

**Introducing a rugged new design of Dodge wing pulley**

- New patent pending “Spider” construction adds significant strength to the pulley
- The most rigid wing pulley design available
- Resistance to wing folding is dramatically improved
- The “Spider” construction is the new Dodge standard on Heavy Duty, Mine Duty and Mine Duty Extra wing pulleys

**Dodge HD wing pulley with new Spider construction**



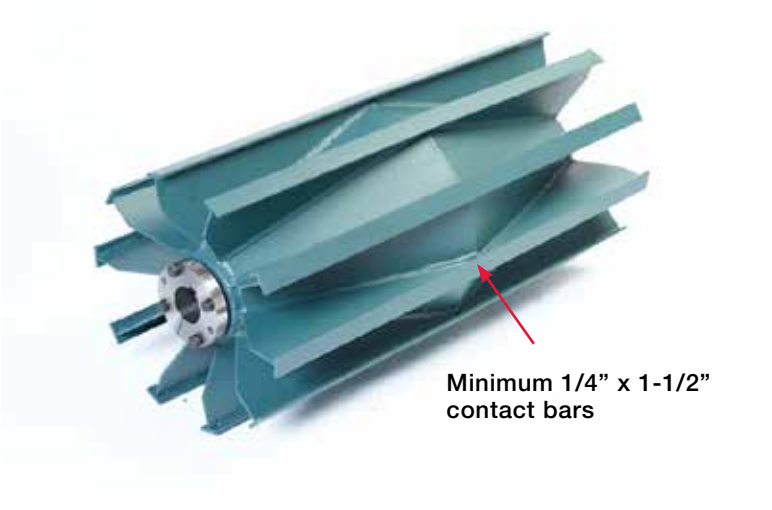
# Wing Pulleys

**Dodge wing conveyor pulleys expel materials that would otherwise damage the belt or a conventional drum pulley. Our newest designs of Heavy Duty, Mine Duty and Mine Duty Extra wing pulleys are the toughest, longest lasting wing pulleys available.**

### Heavy Duty Wing Pulleys

- 6" – 60" diameter
- Face widths exceeding 100"
- Common sizes stocked with HE hubs
- Also available with XT, QD or Taper Lock Hubs

| Dodge | PPI | CCI/Martin | Superior |
|---|---|---|---|
| Heavy Duty | Heavy Duty | Standard Duty | CEMA |

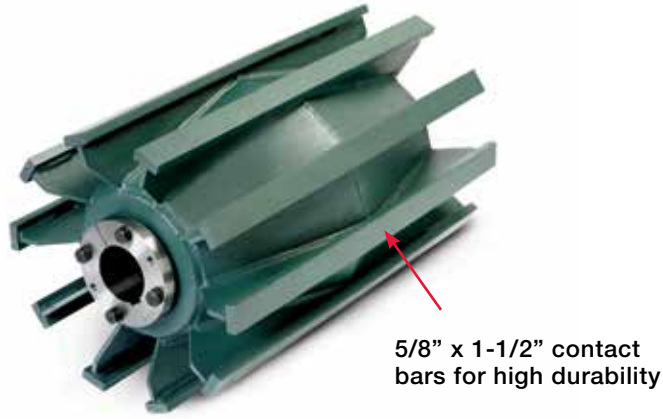



**Dodge's newest wing pulley offering is our Mine Duty wing pulley. The Mine Duty design incorporates the proven integral hub with our exclusive HE bushing system.**

### Mine Duty Wing Pulleys

- 8" – 60" diameter
- Face widths exceeding 100"
- Common sizes stocked with HE hubs
- Also available with XT, QD or Taper Lock hubs

| Dodge | PPI | CCI/Martin | Superior |
|---|---|---|---|
| Mine Duty | Mine Duty | Mine Duty | Mine Duty 2.0 |

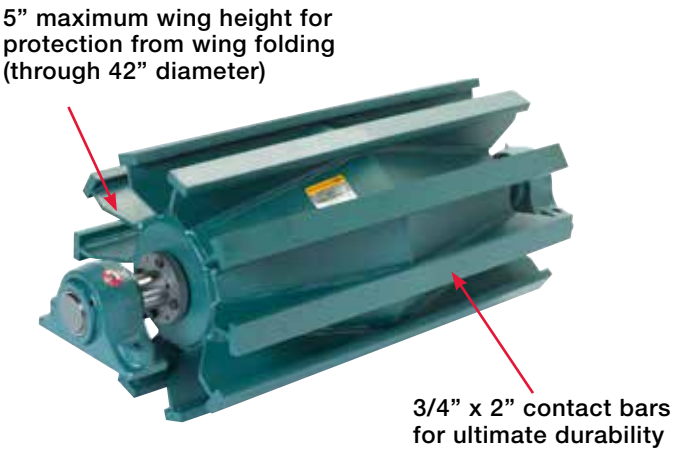



**Dodge's most rugged design of wing pulley is our Mine Duty Extra wing pulley. The Mine Duty Extra design incorporates the proven integral hub with our exclusive HE bushing.**

### Mine Duty Extra Wing Pulleys

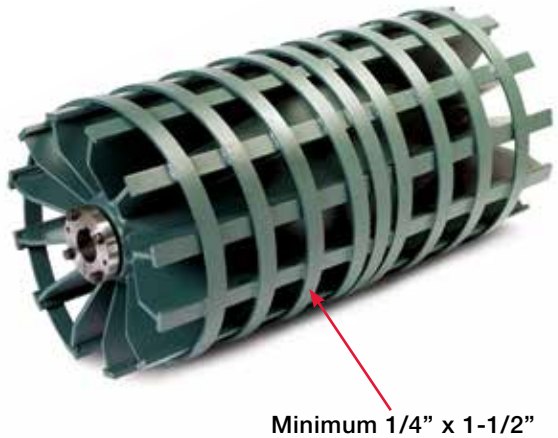
- 10" – 60" diameter
- Face widths exceeding 100"
- HE bushing system
- AR400 contact bars upon request

| Dodge | PPI | CCI/Martin | Superior |
|---|---|---|---|
| Mine Duty EXTRA | Quarry Duty | Quarry Duty | Super Duty |



**Dodge can enhance the performance of our Heavy Duty, Mine Duty or Mine Duty EXTRA wing pulleys with the addition of spirals. Dodge Spiral Wing Pulleys are manufactured with continuous spiral bars for smooth running performance. Spiral wing pulleys are low-impact on belts splices and have the added benefit of not interfering with belt scale operation**

Spiral Wing Pulleys
- 6" – 60" diameter
- Face widths exceeding 100"
- Available in Heavy Duty, Mine Duty and Mine Duty Extra designs



Minimum 1/4" x 1-1/2" wide spiral contact bars

**Dodge offers either slide-on or vulcanized lagging on Heavy Duty, Mine Duty and Mine Duty EXTRA wing pulleys. Dodge lagged wing pulleys can operate in the most contaminated or abrasive conditions and significantly extend pulley life.**

Wing-Lag™ for Heavy Duty Wing Pulleys
- Outlasts rubber lagging with 2-5 times the life
- Durable in extreme temperatures (-60°F to 212°F)
- For 8" thru 60" diameter Heavy Duty wing pulleys
- Available from stock

Vulcanized Lagging
- Rubber is vulcanized directly to the contact bar for slip-free performance
- Available with 45, 60 or 70 durometer SBR rubber
- Optional DLAG premium rubber for ultimate life
- Applies to all sizes of Heavy Duty, Mine Duty or Mine Duty EXTRA wing pulleys



Heavy Duty wing pulley with Wing-Lag

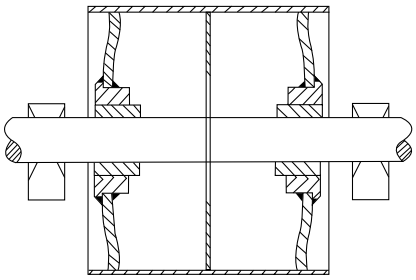
# HE Bushings

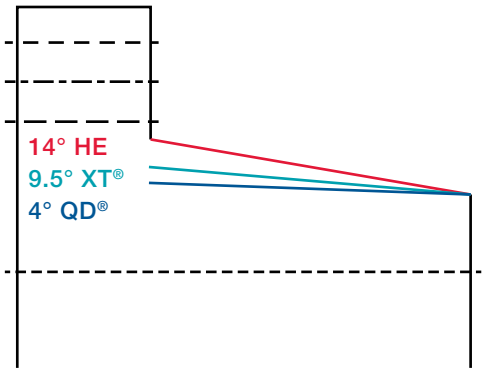
**Dodge HE bushings were designed specifically for conveyor pulley applications. The HE bushing has unique features and a "high endurance" design that is available only from Dodge.**

- 14° self-locking taper angle clamps to the shaft faster than any other keyed compression-type bushing
- Full-length split taper for increased shaft locking power
- Grade 8 bolts on HE60 and larger sizes for high performance in demanding applications
- Thicker mounting flanges for increased mounting force

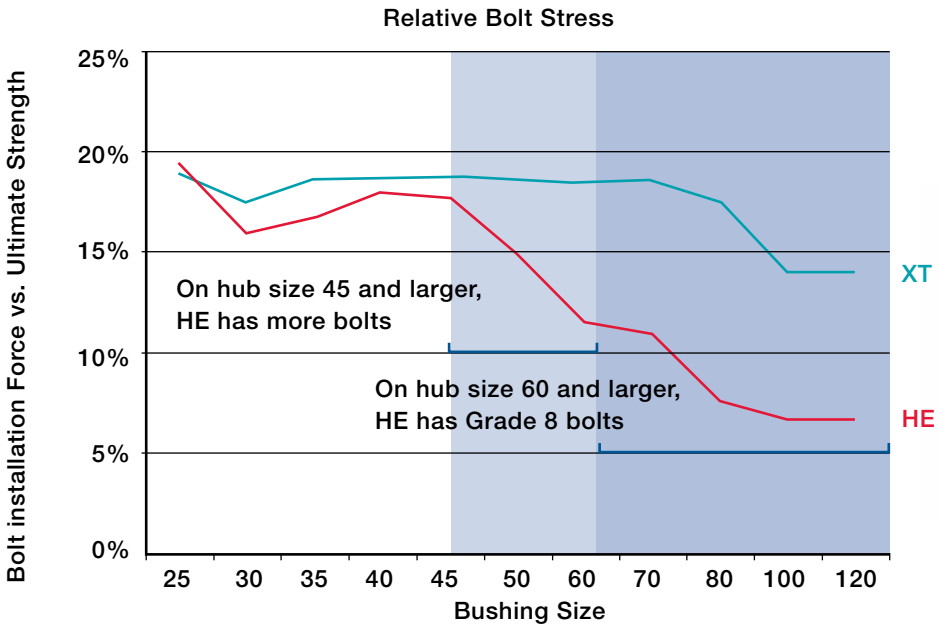
### High Strength with Low Installation Stress

The Dodge HE bushing system's 14 degree taper angle results in the lowest amount of end disc deflection of any tapered bushing system available. This prevents pre-loading stress in welds and significantly extends pulley weld life.






**In addition, the HE bushing's Grade 5 or Grade 8 mounting bolts, when properly installed, experience lower installation stress than competitive bushing bolts. This results in less bolt fractures under cyclical loading.**




HE40 Bushing



XT® is a registered trademark of Van Gorp Corp.

QD® is a registered trademark of Emerson Electric Corp.

# Mine Duty Wings

**Mine Duty wing pulleys are a new product in the Dodge wing pulley family. Below are part numbers and an indication of the stock availability on common sizes. For part numbers on Heavy Duty and Mine Duty EXTRA wing pulleys, see the 2010 PT Components Engineering catalog.**

Part Number Reference

| Diameter | Hub Size | Face Width | | | | | | | | |
|---|---|---|---|---|---|---|---|---|---|---|
| | | 26 | 32 | 36 | 38 | 44 | 51 | 54 | 57 | 63 |
| 10 | HE25 | 224666 | 224668 | 224670 | 224672 | 224674 | 224676 | 224678 | 224680 | 224682 |
| | HE30 | 224667 | 224669 | 224671 | 224673 | 224675 | 224677 | 224679 | 224681 | 224683 |
| 12 | HE25 | 224684 | 224687 | 224690 | 224693 | 224696 | 224699 | 224702 | 224705 | 224708 |
| | HE30 | 224685 | 224688 | 224691 | 224694 | 224697 | 224700 | 224703 | 224706 | 224709 |
| | HE35 | **224686** | **224689** | 224692 | **224695** | **224698** | 224701 | 224704 | 224707 | 224710 |
| 14 | HE25 | 224711 | 224714 | 224717 | 224720 | 224723 | 224726 | 224729 | 224732 | 224735 |
| | HE30 | 224712 | 224715 | 224718 | 224721 | 224724 | 224727 | 224730 | 224733 | 224736 |
| | HE35 | **224713** | **224716** | 224719 | **224722** | **224725** | 224728 | 224731 | 224734 | 224737 |
| 16 | HE25 | 224738 | 224743 | 224748 | 224753 | 224758 | 224763 | 224768 | 224773 | 224778 |
| | HE30 | 224739 | 224744 | 224749 | 224754 | 224759 | 224764 | 224769 | 224774 | 224779 |
| | HE35 | **224740** | **224745** | 224750 | **224755** | 224760 | 224765 | 224770 | 224775 | 224780 |
| | HE40 | 224741 | 224746 | 224751 | 224756 | **224761** | 224766 | 224771 | 224776 | 224781 |
| | HE45 | 224742 | 224747 | 224752 | 224757 | 224762 | 224767 | 224772 | 224777 | 224782 |
| 18 | HE25 | 224783 | 224788 | 224793 | 224798 | 224803 | 224808 | 224813 | 224818 | 224823 |
| | HE30 | 224784 | 224789 | 224794 | 224799 | 224804 | 224809 | 224814 | 224819 | 224824 |
| | HE35 | **224785** | **224790** | 224795 | **224800** | 224805 | 224810 | 224815 | 224820 | 224825 |
| | HE40 | 224786 | 224791 | 224796 | 224801 | **224806** | 224811 | 224816 | 224821 | 224826 |
| | HE45 | 224787 | 224792 | 224797 | 224802 | 224807 | 224812 | 224817 | 224822 | 224827 |
| 20 | HE30 | 224828 | 224833 | 224838 | 224843 | 224848 | 224853 | 224858 | 224863 | 224868 |
| | HE35 | 224829 | 224834 | 224839 | 224844 | 224849 | 224854 | 224859 | 224864 | 224869 |
| | HE40 | 224830 | 224835 | 224840 | 224845 | 224850 | 224855 | 224860 | 224865 | 224870 |
| | HE45 | 224831 | 224836 | 224841 | 224846 | **224851** | 224856 | 224861 | 224866 | 224871 |
| | HE50 | 224832 | 224837 | 224842 | 224847 | 224852 | **224857** | 224862 | 224867 | 224872 |
| 24 | HE30 | – | 224873 | 224878 | 224883 | 224889 | 224895 | 224901 | 224907 | 224913 |
| | HE35 | – | 224874 | 224879 | 224884 | 224890 | 224896 | 224902 | 224908 | 224914 |
| | HE40 | – | 224875 | 224880 | 224885 | 224891 | 224897 | 224903 | 224909 | 224915 |
| | HE45 | – | 224876 | 224881 | 224886 | 224892 | 224898 | 224904 | 224910 | 224916 |
| | HE50 | – | 224877 | 224882 | **224887** | **224893** | 224899 | 224905 | 224911 | 224917 |
| | HE60 | – | – | – | 224888 | 224894 | **224900** | 224906 | 224912 | 224918 |
| 30 | HE35 | – | – | – | 224919 | 224924 | 224929 | 224934 | 224939 | 224944 |
| | HE40 | – | – | – | 224920 | 224925 | 224930 | 224935 | 224940 | 224945 |
| | HE45 | – | – | – | 224921 | 224926 | 224931 | 224936 | 224941 | 224946 |
| | HE50 | – | – | – | 224922 | 224927 | 224932 | 224937 | 224942 | 224947 |
| | HE60 | – | – | – | 224923 | 224928 | 224933 | 224938 | 224943 | 224948 |
| 36 | HE35 | – | – | – | – | 224949 | 224954 | 224959 | 224964 | 224969 |
| | HE40 | – | – | – | – | 224950 | 224955 | 224960 | 224965 | 224970 |
| | HE45 | – | – | – | – | 224951 | 224956 | 224961 | 224966 | 224971 |
| | HE50 | – | – | – | – | 224952 | 224957 | 224962 | 224967 | 224972 |
| | HE60 | – | – | – | – | 224953 | 224958 | 224963 | 224968 | 224973 |

**Indicates Standard Stock**

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