

Chapter 32

Crankshafts, Balance Shafts, and Bearings

Find the words in the grid. Words can go across, down and in the two forward diagonals.

H J X Z J C P S E C O N D A R Y V I B R A T I O N P B W P G Y
 N R S K M P O P T V K M W X I K Y M T N B N G K Q D M F J T T
 L L P N T P K R Q K Z V H B L N M G L U H K E B E R D L I Y W
 L T U M M W M M R W K K B H M T E D M M F T N N N B H L K P L
 Q T N N N M N L R O M M Y I G V K R C C A T E T V L I Q C C H
 N M B L Y Z T N X M S H P K L G F M T N R D R T Z B T N O A D
 M Q E R Q W Y M R G S I Y R N L M A O I R U D I A Z T K U S D
 T L A M T T J M T N F C O I E R E S T A A V S M D R L Z N E N
 T L R L X Z U M I K N N T N R C E T H I C R R H K I X Y T H M
 H T I C C N R P J E W A S M R R I K M H G O I D K B N Y E A T
 P W N T I T K N U O L R X L P E R S Z V F U A N Z D A G R R F
 R D G M K N Y Q R P L K Y P E O S T I N R E E M G L L B W D U
 I W U C A D E C O J Y Q S E W E D I O O R N V L R C K G E E L
 M L D R C R G R M T V G P L D K V C S P N Z B E I K K R I N L
 A B C N F N T K M L N C L A K Z P E S T L I V L T F T K G I Y
 R R L M I C M X M I M M A S K L X B B C A O N W R T E Q H N C
 Y N R R E H T Z R V L M Y T K P M L A E D N W S D Z M Q T G O
 V B A L C K R A T T F R A O M F Z L N B A R C V E P W K S P U
 I E E Z N F E Q Z C N N N M B R N H K H B R N E T R H G T H N
 B K Y K B B N Z M M R Y G E N T W N B F A I I L N M T C F L T
 R N T M L V Y P P L M M L R M G H V K X Q L T N T H P T L K E
 A I K N B T R T W E M B E D A B I L I T Y L F T G D W V Y M R
 T T K K F P L A I N B E A R I N G L T X M X H S K M C B I P W
 I R V C L W V Y K P X R Z H U B B E A R I N G S H E L L N K E
 O I W R R P D X L F C D W H R T D Z C T W N T M N E N K G P I
 N D T M T Z N Q K K L N S U R F A C E F I N I S H C L M W K G
 V I N M R T H K S C O R E R E S I S T A N C E M R J M L E F H
 Q N G A M P L I T U D E F V T H R U S T B E A R I N G P B M T
 V G C M Q C F U L L R O U N D B E A R I N G G W B B K N R L E
 C P C J K T Y R C R A N K S H A F T C E N T E R L I N E G R D
 T M X C O P P E R L E A D A L L O Y R H Z H J W L X R B Q N K

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Aluminum	Conformability	Embedability	Nitriding	Splay angle
Amplitude	Copper lead alloy	Fatigue life	Overlay	Spread
Babbitt	Corrosion resistance	Flying web	Plain bearing	Spun bearing
Bank	Counterweights	Frequency	Precision insert type	Surface finish
Bearing	Crankpins	Full round bearing	Primary vibration	Thrust bearing
Bearing crown	Crankshaft centerline	Fully counterweighted	Resonate	Tuftriding
Bearing shell	Crush	Half shell	Score resistance	Work hardened
Billet	Elastomer	Hub	Secondary vibration	
Case hardening	Electroplating	Inertia ring	Sleeve bearing	