

机械设计常用英文词汇

阿基米德蜗杆 Archimedes worm

安全系数 safety factor; factor of safety

安全载荷 safe load

凹面、凹度 concavity

扳手 wrench

板簧 flat leaf spring

半圆键 woodruff key

变形 deformation

摆杆 oscillating bar

摆动从动件 oscillating follower

摆动从动件凸轮机构 cam with oscillating follower

摆动导杆机构 oscillating guide-bar mechanism

摆线齿轮 cycloidal gear

摆线齿形 cycloidal tooth profile

摆线运动规律 cycloidal motion

摆线针轮 cycloidal-pin wheel

包角 angle of contact

保持架 cage

背对背安装 back-to-back arrangement

背锥 back cone ; normal cone

背锥角 back angle

背锥距 back cone distance

比例尺 scale

比热容 specific heat capacity

闭式链 closed kinematic chain

闭链机构 closed chain mechanism

臂部 arm

变频器 frequency converters

变频调速 frequency control of motor speed
变速 speed change
变速齿轮 change gear change wheel
变位齿轮 modified gear
变位系数 modification coefficient
标准齿轮 standard gear
标准直齿轮 standard spur gear
表面质量系数 superficial mass factor
表面传热系数 surface coefficient of heat transfer
表面粗糙度 surface roughness
并联式组合 combination in parallel
并联机构 parallel mechanism
并联组合机构 parallel combined mechanism
并行工程 concurrent engineering
并行设计 concurred design, CD
不平衡相位 phase angle of unbalance
不平衡 imbalance (or unbalance)
不平衡量 amount of unbalance
不完全齿轮机构 intermittent gearing
波发生器 wave generator
波数 number of waves
补偿 compensation
参数化设计 parameterization design, PD
残余应力 residual stress
操纵及控制装置 operation control device
槽轮 Geneva wheel
槽轮机构 Geneva mechanism ; Maltese cross
槽数 Geneva numerate
槽凸轮 groove cam
侧隙 backlash

差动轮系 differential gear train

差动螺旋机构 differential screw mechanism

差速器 differential

常用机构 conventional mechanism; mechanism in common use

车床 lathe

承载量系数 bearing capacity factor

承载能力 bearing capacity

成对安装 paired mounting

尺寸系列 dimension series

齿槽 tooth space

齿槽宽 spacewidth

齿侧间隙 backlash

齿顶高 addendum

齿顶圆 addendum circle

齿根高 dedendum

齿根圆 dedendum circle

齿厚 tooth thickness

齿距 circular pitch

齿宽 face width

齿廓 tooth profile

齿廓曲线 tooth curve

齿轮 gear

齿轮变速箱 speed-changing gear boxes

齿轮齿条机构 pinion and rack

齿轮插刀 pinion cutter; pinion-shaped shaper cutter

齿轮滚刀 hob ,hobbing cutter

齿轮机构 gear

齿轮轮坯 blank

齿轮传动系 pinion unit

齿轮联轴器 gear coupling
齿条传动 rack gear
齿数 tooth number
齿数比 gear ratio
齿条 rack
齿条插刀 rack cutter; rack-shaped shaper cutter
齿形链、无声链 silent chain
齿形系数 form factor
齿式棘
轮机构 tooth ratchet mechanism
插齿机 gear shaper
重合点 coincident points
重合度 contact ratio
冲床 punch
传动比 transmission ratio, speed ratio
传动装置 gearing; transmission gear
传动系统 driven system
传动角 transmission angle
传动轴 transmission shaft
串联式组合 combination in series
串联式组合机构 series combined mechanism
串级调速 cascade speed control
创新 innovation creation
创新设计 creation design
垂直载荷、法向载荷 normal load
唇形橡胶密封 lip rubber seal
磁流体轴承 magnetic fluid bearing
从动带轮 driven pulley
从动件 driven link, follower
从动件平底宽度 width of flat-face

- 从动件停歇 follower dwell
从动件运动规律 follower motion
从动轮 driven gear
粗线 bold line
粗牙螺纹 coarse thread
大齿轮 gear wheel
打包机 packer
打滑 slipping
带传动 belt driving
带轮 belt pulley
带式制动器 band brake
单列轴承 single row bearing
单向推力轴承 single-direction thrust bearing
单万向联轴节 single universal joint
单位矢量 unit vector
当量齿轮 equivalent spur gear; virtual gear
当量齿数 equivalent teeth number; virtual number of teeth
当量摩擦系数 equivalent coefficient of friction
当量载荷 equivalent load
刀具 cutter
导数 derivative
倒角 chamfer
导热性 conduction of heat
导程 lead
导程角 lead angle
等加等减速运动规律 parabolic motion; constant acceleration and deceleration motion
等速运动规律 uniform motion; constant velocity motion
等径凸轮 conjugate yoke radial cam
等宽凸轮 constant-breadth cam

等效构件 equivalent link
等效力 equivalent force
等效力矩 equivalent moment of force
等效量 equivalent
等效质量 equivalent mass
等效转动惯量 equivalent moment of inertia
等效动力学模型 dynamically equivalent model
底座 chassis
低副 lower pair
点划线 chain dotted line
(疲劳) 点蚀 pitting
垫圈 gasket
垫片密封 gasket seal
碟形弹簧 belleville spring
顶隙 bottom clearance
定轴轮系 ordinary gear train; gear train with fixed axes
动力学 dynamics
动密封 kinematical seal
动能 dynamic energy
动力粘度 dynamic viscosity
动力润滑 dynamic lubrication
动平衡 dynamic balance
动平衡机 dynamic balancing machine
动态特性 dynamic characteristics
动态分析设计 dynamic analysis design
动压力 dynamic reaction
动载荷 dynamic load
端面 transverse plane
端面参数 transverse parameters
端面齿距 transverse circular pitch

端面齿廓 transverse tooth profile
端面重合度 transverse contact ratio
端面模数 transverse module
端面压力角 transverse pressure angle
锻造 forge
对称循环应力 symmetry circulating stress
对心滚子从动件 radial (or in-line) roller follower
对心直动从动件 radial (or in-line) translating follower
对心移动从动件 radial reciprocating follower
对心曲柄滑块机构 in-line slider-crank (or crank-slider) mechanism
多列轴承 multi-row bearing
多楔带 poly V-belt
多项式运动规律 polynomial motion
多质量转子 rotor with several masses
惰轮 idle gear
额定寿命 rating life
额定载荷 load rating
II 级杆组 dyad
发生线 generating line
发生面 generating plane
法面 normal plane
法面参数 normal parameters
法面齿距 normal circular pitch
法面模数 normal module
法面压力角 normal pressure angle
法向齿距 normal pitch
法向齿廓 normal tooth profile
法向直廓蜗杆 straight sided normal worm
法向力 normal force

反馈式组合 feedback combining
反向运动学 inverse (or backward) kinematics
反转法 kinematic inversion
反正切 Arctan
范成法 generating cutting
仿形法 form cutting
方案设计、概念设计 concept design, CD
防振装置 shockproof device
飞轮 flywheel
飞轮矩 moment of flywheel
非标准齿轮 nonstandard gear
非接触式密封 non-contact seal
非周期性速度波动 aperiodic speed fluctuation
非圆齿轮 non-circular gear
粉末合金 powder metallurgy
分度线 reference line; standard pitch line
分度圆 reference circle; standard (cutting) pitch circle
分度圆柱导程角 lead angle at reference cylinder
分度圆柱螺旋角 helix angle at reference cylinder
分母 denominator
分子 numerator
分度圆锥 reference cone; standard pitch cone
分析法 analytical method
封闭差动轮系 planetary differential
复合铰链 compound hinge
复合式组合 compound combining
复合轮系 compound (or combined) gear train
复合平带 compound flat belt
复合应力 combined stress
复式螺旋机构 Compound screw mechanism

复杂机构 complex mechanism
杆组 Assur group
干涉 interference
刚度系数 stiffness coefficient
刚轮 rigid circular spline
钢丝软轴 wire soft shaft
刚体导引机构 body guidance mechanism
刚性冲击 rigid impulse (shock)
刚性转子 rigid rotor
刚性轴承 rigid bearing
刚性联轴器 rigid coupling
高度系列 height series
高速带 high speed belt
高副 higher pair
格拉晓夫定理 Grashoff's law
根切 undercutting
公称直径 nominal diameter
高度系列 height series
功 work
工况系数 application factor
工艺设计 technological design
工作循环图 working cycle diagram
工作机构 operation mechanism
工作载荷 external loads
工作空间 working space
工作应力 working stress
工作阻力 effective resistance
工作阻力矩 effective resistance moment
公法线 common normal line
公共约束 general constraint

metric gears

功率 power

功能分析设计 function analyses design

共轭齿廓 conjugate profiles

共轭凸轮 conjugate cam

构件 link

鼓风机 blower

固定构件 fixed link; frame

固体润滑剂 solid lubricant

关节型操作器 jointed manipulator

惯性力 inertia force

惯性力矩 moment of in

ertia ,shaking moment

惯性力平衡 balance of shaking force

惯性力完全平衡 full balance of shaking force

惯性力部分平衡 partial balance of shaking force

惯性主矩 resultant moment of inertia

惯性主矢 resultant vector of inertia

冠轮 crown gear

广义机构 generation mechanism

广义坐标 generalized coordinate

轨迹生成 path generation

轨迹发生器 path generator

滚刀 hob

滚道 raceway

滚动体 rolling element

滚动轴承 rolling bearing

滚动轴承代号 rolling bearing identification code

滚针 needle roller

滚针轴承 needle roller bearing

roller

滚子轴承 roller bearing

滚子半径 radius of roller

滚子从动件 roller follower

滚子链 roller chain

滚子链联轴器 double roller chain coupling

滚珠丝杆 ball screw

滚柱式单向超越离合器 roller clutch

过度切割 undercutting

函数发生器 function generator

函数生成 function generation

含油轴承 oil bearing

耗油量 oil consumption

耗油量系数 oil consumption factor

赫兹公式 H. Hertz equation

合成弯矩 resultant bending moment

合力 resultant force

合力矩 resultant moment of force

黑箱 black box

横坐标 abscissa

互换性齿轮 interchangeable gears

花键 spline

滑键、导键 feather key

滑动轴承 sliding bearing

滑动率 sliding ratio

滑块 slider

环面蜗杆 toroid helicoids worm

环形弹簧 annular spring

缓冲装置 shocks; shock-absorber

灰铸铁 grey cast iron

return
回转体平衡 balance of rotors
混合轮系 compound gear train
积分 integrate
机电一体化系统设计 mechanical-electrical integration system
design
机构 mechanism
机构分析 analysis of mechanism
机构平衡 balance of mechanism
机构学 mechanism
机构运动设计 kinematic design of mechanism
机构运动简图 kinematic sketch of mechanism
机构综合 synthesis of mechanism
机构组成 constitution of mechanism
机架 frame, fixed link
机架变换 kinematic inversion
机器 machine
机器人 robot
机器人操作器 manipulator
机器学 robotics
技术过程 technique process
技术经济评价 technical and economic evaluation
技术系统 technique system
机械 machinery
机械创新设计 mechanical creation design, MCD
机械系统设计 mechanical system design, MSD
机械动力分析 dynamic analysis of machinery
机械动力设计 dynamic design of machinery
机械动力学 dynamics of machinery
机械的现代设计 modern machine design

mechanical system

机械利益 mechanical advantage

机械平衡 balance of machinery

机械手 manipulator

机械设计 machine design; mechanical design

机械特性 mechanical behavior

机械调速 mechanical speed governors

机械效率 mechanical efficiency

机械原理 theory of machines and mechanisms

机械运转不均匀系数 coefficient of speed fluctuation

机械无级变速 mechanical stepless speed changes

基础机

构 fundamental mechanism

基本额定寿命 basic rating life

基于实例设计 case-based design,CBD

基圆 base circle

基圆半径 radius of base circle

基圆齿距 base pitch

基圆压力角 pressure angle of base circle

基圆柱 base cylinder

基圆锥 base cone

急回机构 quick-return mechanism

急回特性 quick-return characteristics

急回系数 advance-to return-time ratio

急回运动 quick-return motion

棘轮 ratchet

棘轮机构 ratchet mechanism

棘爪 pawl

极限位置 extreme (or limiting) position

极位夹角 crank angle between extreme (or limiting) positions

computer aided design, CAD

计算机辅助制造 computer aided manufacturing, CAM

计算机集成制造系统 computer integrated manufacturing system, CIMS

计算力矩 factored moment; calculation moment

计算弯矩 calculated bending moment

加权系数 weighting efficient

加速度 acceleration

加速度分析 acceleration analysis

加速度曲线 acceleration diagram

尖点 pointing; cusp

尖底从动件 knife-edge follower

间隙 backlash

间歇运动机构 intermittent motion mechanism

减速比 reduction ratio

减速齿轮、减速装置 reduction gear

减速器 speed reducer

减摩性 anti-friction quality

渐开螺旋面 involute helicoid

渐开线 involute

渐开线齿廓 involute profile

渐开线齿轮 involute gear

渐开线发生线 generating line of involute

渐开线方程 involute equation

渐开线函数 involute function

渐开线蜗杆 involute worm

渐开线压力角 pressure angle of involute

渐开线花键 involute spline

简谐运动 simple harmonic motion

键 key

keyway

交变应力 repeated stress

交变载荷 repeated fluctuating load

交*带传动 cross-belt drive

交错轴斜齿轮 crossed helical gears

胶合 scoring

角加速度 angular acceleration

角速度 angular velocity

角速比 angular velocity ratio

角接触球轴承 angular contact ball bearing

角接触推力轴承 angular contact thrust bearing

角接触向心轴承 angular contact radial bearing

角接触轴承 angular contact bearing

铰链、枢纽 hinge

校正平面 correcting plane

接触应力 contact stress

接触式密封 contact seal

阶梯轴 multi-diameter shaft

结构 structure

结构设计 structural design

截面 section

节点 pitch point

节距 circular pitch; pitch of teeth

节线 pitch line

节圆 pitch circle

节圆齿厚 thickness on pitch circle

节圆直径 pitch diameter

节圆锥 pitch cone

节圆锥角 pitch cone angle

解析设计 analytical design

紧边 tight-side
紧固件 fastener
径节 diametral pitch
径向 radial direction
径向当量动载荷 dynamic equivalent radial load
径向当量静载荷 static equivalent radial load
径向基本额定动载荷 basic dynamic radial load rating
径向基本额定静载荷 basic static radial load rating
径向接触轴承 radial contact bearing
径向平面 radial plane
径向游隙 radial internal clearance
径向载荷 radial load
径向载荷系数 radial load factor
径向间隙 clearance
静力 static force
静平衡 static balance
静载荷 static load
静密封 static seal
局部自由度 passive degree of freedom
矩阵 matrix
矩形螺纹 square threaded form
锯齿形螺纹 buttress thread form
矩形牙嵌式离合器 square-jaw positive-contact clutch
绝对尺寸系数 absolute dimensional factor
绝对运动 absolute motion
绝对速度 absolute velocity
均衡装置 load balancing mechanism
抗压强度 compression strength
开口传动 open-belt drive

开式链 open kinematic chain
开链机构 open chain mechanism
可*度 degree of reliability
可*性 reliability
可*性设计 reliability design, RD
空气弹簧 air spring
空间机构 spatial mechanism
空间连杆机构 spatial linkage
空间凸轮机构 spatial cam
空间运动副 spatial kinematic pair
空间运动链 spatial kinematic chain
空转 idle
宽度系列 width series
框图 block diagram
雷诺方程 Reynolds's equation
离心力 centrifugal force
离心应力 centrifugal stress
离合器 clutch
离心密封 centrifugal seal
理论廓线 pitch curve
理论啮合线 theoretical line of action
隶属度 membership
力 force
力多边形 force polygon
力封闭型凸轮机构 force-drive (or force-closed) cam
mechanism
力矩 moment
力平衡 equilibrium
力偶 couple
力偶矩 moment of couple

连杆 connecting rod, coupler
连杆机构 linkage
连杆曲线 coupler-curve
连心线 line of centers
链 chain
链传动装置 chain gearing
链轮 sprocket sprocket-wheel sprocket gear chain wheel
联组 V 带 tight-up V belt
联轴器 coupling shaft coupling
两维凸轮 two-dimensional cam
临界转速 critical speed
六杆机构 six-bar linkage
龙门刨床 double Haas planer
轮坯 blank
轮系 gear train
螺杆 screw
螺距 thread pitch

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