



# 中华人民共和国国家标准

GB/T 16273.4—2001

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## 设备用图形符号 第4部分:带有箭头的符号

Graphical symbols for use on equipment—  
Part 4: Symbols incorporating arrows

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## 前 言

本标准规定的 112 个带有箭头的图形符号从 ISO 7000:1989《设备用图形符号 索引和一览表》中选取,与 ISO 7000 中的相关符号完全相同。符号的编排顺序参考 ISO/TR 10488:1991《带有箭头的图形符号 概览》。

本标准是《设备用图形符号》系列标准中的一个标准。该系列标准目前已制定以下四个标准:

GB/T 16273.1—1996 设备用图形符号 通用符号

GB/T 16273.2—1996 设备用图形符号 机床通用符号

GB/T 16273.3—1999 设备用图形符号 电焊设备通用符号

GB/T 16273.4—2001 设备用图形符号 第 4 部分:带有箭头的符号

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本标准的附录 A 为提示的附录。

本标准由中国标准研究中心提出。

本标准由全国图形符号标准化技术委员会归口。

本标准起草单位:中国标准研究中心。

本标准主要起草人:张亮、白殿一、陈元桥。

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## 设备用图形符号 第4部分:带有箭头的符号

GB/T 16273.4—2001

### Graphical symbols for use on equipment— Part 4: Symbols incorporating arrows

#### 1 范围

本标准规定了用于设备上的带有箭头的图形符号。

本标准适用于各种非电气设备的操作控制器、指示器及连接插口。

#### 2 引用标准

下列标准所包含的条文,通过在本标准中引用而构成为本标准的条文。本标准出版时,所示版本均为有效。所有标准都会被修订,使用本标准的各方应探讨使用下列标准最新版本的可能性。

GB/T 15565—1995 图形符号 术语

GB/T 16902.1—1997 图形符号表示规则 设备用图形符号 第1部分:图形符号的形成

#### 3 术语

GB/T 15565 确立的术语适用于本标准。

#### 4 图形符号

图形符号见表1~表5。表中说明栏的内容是该符号在ISO 7000中所对应的符号编号,表示该符号等同于ISO 7000中的相应符号。

#### 5 应用

5.1 图形符号的应用应遵循GB/T 16902.1—1997第7章的规定。

5.2 使用本标准中的图形符号时,应按照表1~表5中给出的符号原图及其与角标的位置关系,进行等比例放大或缩小。表1中图形符号四周的角标不构成图形符号的内容,仅作为图形符号等比例放大或缩小的基准。

表1 运动和运动方向

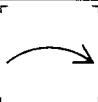
编号	图形符号	名称	说明
1-01		向右连续旋转的方向 direction of continuous rotation to the right	ISO 7000:1989(0004)

表 1(续)

编号	图形符号	名 称	说 明
1-02		向左连续旋转的方向 direction of continuous rotation to the left	ISO 7000:1989(0004)
1-03		间歇直线运动的方向 direction of interrupted rectilinear motion	ISO 7000:1989(0920)
1-04		间歇直线运动 interrupted rectilinear motion	ISO 7000:1989(0252)
1-05		间歇旋转 interrupted rotation	ISO 7000:1989(0431)
1-06		限位直线运动 limited rectilinear motion	ISO 7000:1989(0001)
1-07		顺时针限位转动 limited rotation clockwise	ISO 7000:1989(0006)
1-08		逆时针限位转动 limited rotation anticlockwise	ISO 7000:1989(0006)
1-09		自起始点沿箭头方向运动 movement in direction of arrow from a point of origin	ISO 7000:1989(0521)
1-10		自限位点向右转动 right-turning movement from a limit	ISO 7000:1989(0921)
1-11		自限位点向左转动 left-turning movement from a limit	ISO 7000:1989(0922)

表 1(续)

编号	图形符号	名 称	说 明
1-12		渐进直线运动 incremental rectilinear motion	ISO 7000:1989(0253)
1-13		直线重复定位 rectilinear repeated positioning	ISO 7000:1989(0254)
1-14		转动重复定位 rotary repeated positioning	ISO 7000:1989(0436)
1-15		双向转动 rotation in two directions	ISO 7000:1989(0005)
1-16		双向运动,具有一个限位点 movement in two directions,one limited	ISO 7000:1989(0923)
1-17		回车换行 horizontal return with linespacing	ISO 7000:1989(0651)
1-18		向相反方向返回的运动(U形转弯) movement with return to the counter direction [U-turn]	ISO 7000:1989(0924)
1-19		转变方向的向左限位运动 movement with changing direction limited; horizontal tabulation left with linespacing	ISO 7000:1989(0925)
1-20		轨迹转变 track change	ISO 7000:1989(0091)
1-21		离开线 leave counter	ISO 7000:1989(0926)

表 1(续)

编号	图形符号	名 称	说 明
1-22		右转 turn right	ISO 7000:1989(0927)
1-23		直行或右转 straight on or turn right	ISO 7000:1989(0928)
1-24		向、自控制器运动 movement to and from the operator	ISO 7000:1989(1110)
1-25		二步或多步运动 movement in two or more steps	ISO 7000:1989(1111)
1-26		自同一个限位点向相反方向运动 movement in opposite directions from a common limit	ISO 7000:1989(0929)
1-27		以相反方向向两个限位点运动 movement in opposite directions towards two limits	ISO 7000:1989(0930)
1-28		限位直线运动和返回 limited rectilinear motion and return	ISO 7000:1989(0002)
1-29		限位摆动 limited rotation and return	ISO 7000:1989(0007)
1-30		一次限位直线运动和返回 single limited rectilinear motion and return	ISO 7000:1989(0255)
1-31		延时限位直线运动 limited rectilinear motion with delay	ISO 7000:1989(0257)

表 1(续)

编号	图形符号	名 称	说 明
1-32		每行程进给量 feed per stroke	ISO 7000:1989(0264)
1-33		连续限位往复直线运动 limited reciprocating rectilinear motion (continuous)	ISO 7000:1989(0003)
1-34		超程, 直线 overtravel, rectilinear	ISO 7000:1989(0256)
1-35		具有一个间断跳跃的按箭头方向运动 movement in arrow direction with skip of a stop	ISO 7000:1989(0936)
1-36		具有一个间断跳跃的向右限位运动 movement to the right with skip of a stop, limited column skip right	ISO 7000:1989(0931)
1-37		具有一个间断跳跃的向左限位运动 movement to the left with skip of a stop, limited column skip left; vertical tabulation with skip	ISO 7000:1989(0932)
1-38		具有一个间断跳跃的转变方向的向左限位运动 movement with changing direction with skip of a stop, limited; column skip left with linespacing	ISO 7000:1989(0935)
1-39		自一个限位点按箭头方向运动, 具有一个间断的跳跃 movement from a limit in arrow direction with skip of a stop	ISO 7000:1989(0933)
1-40		自一个限位点按箭头方向运动, 具有一个间断的跳跃, 限位 movement from a limit in arrow direction with skip of a stop, limited	ISO 7000:1989(0934)

表 1(续)


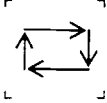
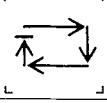
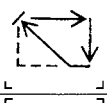

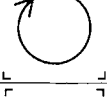
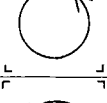
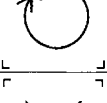
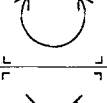

编号	图形符号	名 称	说 明
1-41		连续限位摆动 oscillating rotary movement (continuous)	ISO 7000:1989(0008)
1-42		自动循环 automatic cycle	ISO 7000:1989(0026)
1-43		一次循环 one cycle	ISO 7000:1989(0426)
1-44		中断自动循环回到起始位置 interruption of automatic cycle and return to start position	ISO 7000:1989(0427)
1-45		子循环 subcycle	ISO 7000:1989(0428)
1-46		右旋转运动 revolution, right	ISO 7000:1989(0258)
1-47		左旋转运动 revolution, left	ISO 7000:1989(0937)
1-48		旋转一周 one revolution	ISO 7000:1989(0009)
1-49		限位旋转和返回 limited part of a revolution and return	ISO 7000:1989(0938)
1-50		限位旋转 limited part of one revolution	ISO 7000:1989(0939)



表 1(续)

编号	图形符号	名 称	说 明
1-51		连续顺时针方向旋转 direction of continuous rotation, tridimensional presentation	ISO 7000:1989(0440)
1-52		连续逆时针方向旋转 direction of continuous rotation, counterclockwise	ISO 7000:1989(0941)
1-53		间歇顺时针方向旋转 direction of interrupted rotation, clockwise	ISO 7000:1989(0942)
1-54		间歇逆时针方向旋转 direction of interrupted rotation, counterclockwise	ISO 7000:1989(0943)
1-55		转数每分钟 number of revolutions per minute; rotational speed	ISO 7000:1989(0010)
1-56		旋转速度的变化 change of rotational speed	ISO 7000:1989(0592)
1-57		直线运动止回 back-stop for linear motion	ISO 7000:1989(0947)
1-58		旋转运动止回 back-stop for rotary motion	ISO 7000:1989(0948)
1-59		向前(向前运动); 运输工具向前运动 forward (forward motion); vehicle forward movement	ISO 7000:1989(0775)
1-60		向后(向后运动); 运输工具向后运动 backward (backward motion); vehicle aft movement	ISO 7000:1989(0776)

表 1(续)

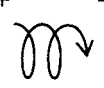

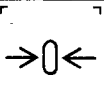
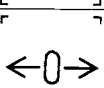
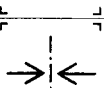
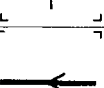
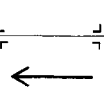

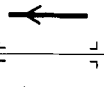
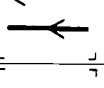
编号	图形符号	名 称	说 明
1-61		螺旋运动 helical movement	ISO 7000:1989(0951)
1-62		顺序反转 reversal of sequence	ISO 7000:1989(0539)
1-63		调零 zero-point adjustment	ISO 7000:1989(0540)
1-64		零点移位 zero-point motion	ISO 7000:1989(0940)
1-65		中心位置 central position	ISO 7000:1989(0514)
1-66		物料、生产流程方向 direction of material; direction of production	ISO 7000:1989(0953)
1-67		顺生产流程方向的运动 movement in direction of production	ISO 7000:1989(0954)
1-68		逆生产流程方向的运动 movement against direction of production	ISO 7000:1989(0955)
1-69		顺生产流程方向的间断运动 interrupted movement in direction of production	ISO 7000:1989(0956)
1-70		逆生产流程方向的间断运动 interrupted movement against direction of production	ISO 7000:1989(0957)

表 1(续)


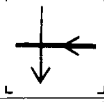
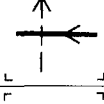
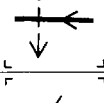
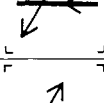
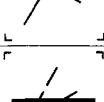

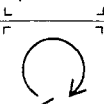
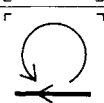

编号	图形符号	名 称	说 明
1-71		从生产流程方向上看,向上运动 movement upwards, seen in the direction of production	ISO 7000:1989(0960)
1-72		从生产流程方向上看,向下运动 movement downwards, seen in the direction of production	ISO 7000:1989(0961)
1-73		从生产流程方向上看,向上间断运动 interrupted movement upwards, seen in the direction of production	ISO 7000:1989(0962)
1-74		从生产流程方向上看,向下间断运动 interrupted movement downward, seen in the direction of production	ISO 7000:1989(0963)
1-75		从生产流程方向上看,向左运动 movement to the left, seen in the direction of production	ISO 7000:1989(0964)
1-76		从生产流程方向上看,向右运动 movement to the right, seen in the direction of production	ISO 7000:1989(0965)
1-77		从生产流程方向上看,向左间断运动 interrupted movement to the left, seen in the direction of production	ISO 7000:1989(0966)
1-78		从生产流程方向上看,向右间断运动 interrupted movement to the right, seen in the direction of production	ISO 7000:1989(0967)
1-79		顺生产流程方向旋转 rotation in the direction of production	ISO 7000:1989(0968)
1-80		逆生产流程方向旋转 rotation against the direction of production	ISO 7000:1989(0969)

表 1(续)

编号	图形符号	名 称	说 明
1-81		顺生产流程方向间断旋转 interrupted rotation in the direction of production	ISO 7000:1989(0970)
1-82		逆生产流程方向间断旋转 interrupted rotation against the direction of production	ISO 7000:1989(0971)
1-83		以垂直生产流程方向为轴逆时针旋转 rotational movement counterclockwise, with rotation axis transverse to the direction of production	ISO 7000:1989(0972)
1-84		以垂直生产流程方向为轴逆时针间断旋转 interrupted rotation movement counter-clockwise, with rotation axis transverse to the direction of production	ISO 7000:1989(0973)
1-85		以垂直生产流程方向为轴顺时针旋转 rotational movement clockwise, with rotation axis transverse to the direction of production	ISO 7000:1989(0974)
1-86		以垂直生产流程方向为轴顺时针间断旋转 interrupted rotation movement clockwise, with rotation axis transverse to the direction of production	ISO 7000:1989(0975)
1-87		以平行生产流程方向为轴逆时针旋转 rotational movement counterclockwise, with rotation axis parallel to the direction of production	ISO 7000:1989(0976)
1-88		以平行生产流程方向为轴逆时针间断旋转 interrupted rotation movement counter-clockwise, with rotation axis parallel to the direction of production	ISO 7000:1989(0977)
1-89		以平行生产流程方向为轴顺时针旋转 rotational movement clockwise, with rotation axis parallel to the direction of production	ISO 7000:1989(0978)

表 1(完)

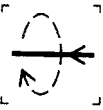
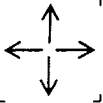
编号	图形符号	名 称	说 明
1-90		以平行生产流程方向为轴顺时针间断旋转 interrupted rotation movement clockwise, with rotation axis parallel to the direction of pro- duction	ISO 7000:1989(0979)
1-91		坐标跟踪 coordinate tracing	ISO 7000:1989(0493)

表 2 速度


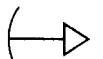
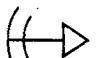



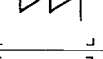
编号	图形符号	名 称	说 明
2-01		快速运行;快速 accelerated fast run; accelerated fast speed	ISO 7000:1989(0944)
2-02		慢速运行;慢速 reduced run; reduced speed	ISO 7000:1989(0527)
2-03		缓慢运行;缓慢 much reduced run; much reduced speed	ISO 7000:1989(0528)
2-04		按箭头方向向定位点常速运动 movement with normal speed in direction of arrow to a fixed position	ISO 7000:1989(1116)
2-05		按箭头方向自定位点常速运动 movement with normal speed in direction of arrow from a fixed position	ISO 7000:1989(1114)
2-06		按箭头方向向定位点快速运动 movement with fast speed in direction of arrow to a fixed position	ISO 7000:1989(1117)
2-07		按箭头方向自定位点快速运动 movement with fast speed in direction of arrow from a fixed position	ISO 7000:1989(1115)

表 2(完)

编号	图形符号	名 称	说 明
2-08		加速 acceleration	ISO 7000:1989(0945)
2-09		减速 retardation	ISO 7000:1989(0946)

表 3 动作和动作效果

编号	图形符号	名 称	说 明
3-01		锁紧; 夹紧 lock; tighten	ISO 7000:1989(0018)
3-02		松开; 脱开 unlock; unclamp	ISO 7000:1989(0019)
3-03		功能箭头 functional arrow	ISO 7000:1989(0251)
3-04		逆生产流程方向的物料流动 flow of material against direction of production (counter stream principle)	ISO 7000:1989(0958)
3-05		顺生产流程方向的物料流动 flow of material in direction of production (uni-directional stream principle)	ISO 7000:1989(0959)

表 4 尺寸

编号	图形符号	名 称	说 明
4-01		刻度; 刻度间距 scale; scale interval	ISO 7000:1989(0980)

表 4(完)

编号	图形符号	名 称	说 明
4-02		实际尺寸 actual dimensions	ISO 7000:1989(0919)
4-03		公称尺寸 nominal dimensions	ISO 7000:1989(0918)

表 5 其他

编号	图形符号	名 称	说 明
5-01		控制 control;controlling	ISO 7000:1989(0094)
5-02		反馈控制 feedback control	ISO 7000:1989(0095)
5-03		主轴定向停止 oriented spindle stop	ISO 7000:1989(0412)
5-04		变换;交换 interchange	ISO 7000:1989(0273)

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