## DIGITAL READOUT MANUAL

MODEL: TECH-3i
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is. .

## Dear User:

Welcome to the use of TECH-3i DRO System, which is developed by Measurite Pte Ltd, the TECH-3i DRO System is widely used in milling machine, grinding machine, wire-cut, EDM and lathe, the functions can help us to improve efficiency, ease of operation, precise measurement and repeatability. It is now an absolute need to install them on your machine.

The Use of the DRO System, is easily understood by any user. You can use it without needing to finish reading the manual. You can use it very easily and is suitable for both new operator and skilled operator alike.

## Safety precautions:

Open the box and remove it from the packing. Plug it with the power cable and test if the DRO powers up and the digit display correctly. It accepts power of 80Vac ~ 240 Vac .
(1) When you open the box, check the physical appearance is in good condition, if you find something at fault, please contact the seller, be sure not to take dismantle it.
(2) The DRO used the al ternating current of $110 \mathrm{~V} \sim 220 \mathrm{~V}$ or $50 \mathrm{~Hz} \sim 60 \mathrm{~Hz}$, the electrical connector plugs pin is three core pin which has earth pin.
(3) The user be sure not to repair it, the DRO has high-powered piezoelectricity, this could do some damage to people.
(4) The chassis is made by ABS plastic, it can' $t$ be used in the high temperature .
(5) When you do not use it, please turn off the electrical source. It can prolong the life-time of the product.
(6) If the thunder storm comes, close the electrical source.

## Routine Maintenance:

(1) When you are cleaning the DRO, please turn off the power.
(2) Use a dry cloth or brush clean the keyboard / rear panel of the DRO.
(3) Do not clean the panel or keyboard by thinner or ethanol.
(4) The rear of the casing can be cleaned by detergent.

## Promises:

If there are some issue with the DRO operation or the malfunctions, you can contact Measurite Pte Ltd at www. measurite.com. sg / email : info@measurite.com. sg

## The Note of the Pressed key

TECH-3i


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TECH-3i DRO, used high-tech component and PCB assembly technique, more function, operate easily, credibility durable. Please read the manual before operation of the machines.


17, Power cut memory
-, nine core bnc connector jack and sense organ connect table

| Feet <br> size | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 |
| :---: | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Func <br> tion | null | 0v | null | null | null | signal | 5 V | signal | RI signal |

## X <br> Clear

Function: TECH-3i DRO, operator and clear the coordinate at any place

input Coordinate
Function: TECH-3i chinese prompt the operator and set the workpiece place to any data.
e.g: set the $X$ to 45.8 mm


(pour: when you input, the $X$ data will glint)


INCH/MM

Function: TECH-3i english prompt it can make the data switch between the mm and inch
Now the mm is 25.400 , the inch is 1.0000

Operation steps
e.g 1: now the data is in inch, we change it to mm.

press $\frac{\mathrm{IN}}{\mathrm{MN}}$

e.g 2: now the data is in mm, we change it to inch.

press $\frac{\pi N}{M N}$

(Attention: at ABS/INC, SDM it can be switched also)
function: TECH-3i english prompt the dataview table provide two coordinate, they are ABS and INC.

1. The operator can memory the RI to ABS, and switch to INC for operationg.。
2. Clear the INC coordinate at any place, the $1 / 2$ can not affect the ABS coordinate.

3, at ABS coordinate the absolut value can autosave, and the operator can see it at any time.

Operation steps

press $\frac{\hat{A B S}}{I N C}$


Operation steps
e.g2:Switch the INC to ABS


Operation steps
make the $X$ to another side $\longrightarrow$ press


RI

midsplit autoly

Function: TECH-3i chinese prompt at currently data press $1 / 2$ and move the machine tool to Zero.
e.g: e set the $X$ zero to the middle of the machine tool.

1, move the machine tool to one side , press $\mathrm{X}_{0}$

2, move the machine tool to another side, press $1 / 2$, and press | $队$ | $X$ |
| :--- | :--- |

3. move the machine tool to " 0.000 "

## RI (Find RI)

Function: TECH-3i chinese prompt set the size of zero and RI e.g: example for X

1. Clear the $X$ at ABS, press $X_{0}$

2, press $\mathrm{RI} \rightarrow$|  | X |
| ---: | :--- |

3. move the machine tool when it come by the RI

When power off, if you move the operation table, you can find the RI by the RI function when you open it next time

Press

move the machine table when it come by RI, the function window view $0 \mathrm{~K} \cdots \cdots$ and beep for "du-du". move the machine tool to "0.000".

At everyday process, the most tool is calculator besides workpiece.
The Calculator of the TECH-3i provide the function for add, minus, multiply, divide and some function, contains Sin , Cos, TAN.etc.

The Calculator function can move the result to the axis which you need to operate it, the operator just need move the machine tool to zero. the place is you needed.

For example: $123+76=199$ $6 \times 35=210$

attention: 1, if you input error press $/ /{ }_{\text {CE }}$ to cancel
2, when you finished press $\circlearrowleft X$, the result move to $x$
3, at calculator press $\wp \mathrm{X}$ move the data of X to calculator

## SD

 300 Group[^0]like pic, the origin of the $A B S$ is inthe centerof the workpiece, there are
two menthod to set.
(1) To place clear zero
(2) Coordinate input

e.g 1: To place clear zero
set the workpiece zero to ABS zero.move the machine tool to SDM begin place and clear zero, when operating without reference to ABS or SDM, move the workpiece to "0.000".

Steps:
(1) Follow the methods of the midsplit autoly, set the ABS begir to the rectangle centre, $A B$ neat to the $X$.
$A D$ neat to $Y$, aim at $0, A B S, X, Y$ clear near.

Sdmo X, Y Clear Zero

Sdml X, Y Clear Zero

Sdm2 X, Y Clear Zero

Sdm3 X, Y Clear Zero


| 0.000 | 6 $X$ | $\begin{aligned} & \mathrm{ABS} \\ & \mathrm{BDI} \end{aligned}$ | $\begin{aligned} & \mathrm{R}: \\ & \mathrm{A}: \end{aligned}$ | $\begin{array}{r} 0.000 \\ 0^{\circ} 00^{\circ} 00^{\circ} \end{array}$ |
| :---: | :---: | :---: | :---: | :---: |
| 0.000 | ¢ B |  |  |  |
| 0.000 | 3 2 | X |  |  |
|  |  | $Y$ O |  |  |
|  |  | 2. |  |  |

operation steps
(1) Set the first point SDM , enter the SDM coordinate, Clear $X$, Clear $Y$, move the machine tool to the first point. like pic.

(2) Set the first point SDM1 , enter the SDMI coordinate, clear $X$, clear $Y$, move the machine tool to the second point. like pic

press $\mathrm{X}_{0} \mathrm{Y}_{0}$

(3) Set the first point SDM2 , enter the SDM2 coordinate, Clear $X$, Clear $Y$, move the machine tool to the third point.like pic.

(4) Set the first point SDM3, enter the SDM3 coordinate, Clear $\mathrm{X}, \mathrm{Clear} \mathrm{Y}$, move the machine tool to the fourth point. like pic.

press $\mathrm{X}_{0} \mathrm{Y}_{0}$


Operation Steps
(5) Process workpiece according to the coordinate
(6) Process workpice which is the same to the previous workpiece, just set the ABS zero at " 0.000 ", the SDM zero have set
autoly,press $\square$ and move the machine tool to zero.

2, Preset the SDM coordinate.
Use the method of preset zero, you needn' $t$ to move the machine tool, itcanset the user's zero exactness and shortcut.
e.g: use the "o" mode input,like pic when the absoluteness coordinate is in zero, the $1(60,-45), 2(-60,-45), 3(60,45)$, 4 ( $-60,45$ )
Operation steps
(1) In the ABS set the RI

(2) Set the lst zero,turn to the 1st zero SDM1.


(3) Input the lst assistant zero coordinate straight


Set the 2nd zero,
turn to the 2nd zero SDM2.

press


Input the 2nd assistant zero coordinate straight.


Operation Steps


Set the 3rd zero,
turn to the 3 rd zero SDM3.
press $\Omega$


Input the 3rd assistant zero coordinate straight.


Set the 4 th zero
press $凸$


Input the 4 th assistant zero coordinate straight


When the four assistant zero have been set,operator can press
$\square$ to the assistant zero, and move the machine tool to zero, it's the assistant zero, quit the SDM function, you can press ABS INC

Switch SDM input mode:

When the SDM mode is"0", the data input is fact data.

When the SDM mode is" 1 ", the data input is reverse data.
Eg. 1 press $\rightarrow$ press $\square$


2 Press ent to selet "0"mode or" 1 "mode,Press $/$ CE quit.

## SDM All clear away

The function is introduced: Eliminate consumer coordinate system SDM300 Group The plain is interposed, Eliminate the queen. SDMCoordinate system has to demonstrate value and ABS coordinate system has to demonstrate value equality.

Operation step:

1. Press KeyEnter the fundamental parameter Press Choice arrives at "Clear SDM multiunit coordinate"

2. When right window display "OVER", Press //CE for exit.

## Circumference be allotted a hole

Function: TECH-3i The obvious form of number provides the convenient circumference halving hole function. Person requires operation to import

The circumference radius

The circumference initiation angle
The circumference termination angle

The halving hole number


TECH-3i English is pointed out
On the circumference the obvious form of number is calculated out just voluntarily, every divides the hole location from the middle Every hole location is set up for zero, Person needs operation press
$\square$ or $\square$ , Which and then the upper hole choosing to the circumference, the machine tool working table is swayed to zero, is the location being a hole's turn.

## Operation Steps

eg. Radius: 30 mm

Initiation angle: $30^{\circ}$

End an angle: $318^{\circ}$

Divide the hole number from the middle: 6


## Operation steps:

1, he central point location $X=0, Y=0$, press
 enter the circle split.


2, input the radius ( $\mathrm{R}: 30$ )
press 3 ent

Operation Steps


In the first place radius interposing


3, Import the initiation angle


In the first place initiation angle interposing


4, Import the termination angle
${ }_{\text {press }} 3 \boxed{1} \boxed{8}$ ent

Operation Steps


In the first place initiation angle interposing


5, Import the maximal hole number (Hole number)
press 6 ent


In the first place Maximal hole number interposing


Enter treating directly, If treating is finished, press
attention:
1, Process the queen in entrance, Handle person press
which number holes queen to choosing, the machine tool working table being swayed arriving at is 0.000 Be the location owing a circumference a hole
2. Import process middle, $Y$ Axis scintillation that can not stay, Press ant, That the number displays a form is able to enter next step voluntarily
3. If operation person requires that the halfway is temporary remove from "the circumference mark of hole " function, when returning to regular ABS state, $X, Y$, coordinate show,

Press Win Withdraw from temporarily, Press TAN return to circumference mark of hole state.

```
Ellipse be allotted a hole
```

Function: TECH-3i The god of the earth who points out that the obvious form of number provides the convenient ellipse halving hole function handles person requires English to import an ellipse
$X, Y$ axis radius
Elliptic initiation angle

Elliptic termination angle

Elliptic maximal hole number


TECH-3i English mounts every halving hole location, every hole location is set up for zero to point out that the obvious form of number calculates out an ellipse just voluntarily, Person needs operation Press $\widehat{\Downarrow}$ or Which and then the upper hole choosing to the ellipse, the machine tool working table is swayed to zero, is the location being a hole's turn.
eg: $X$ axis radius $: 20 \mathrm{~mm}$

Y axis radius: 30 mm

Initiation angle: $0^{0}$

End an angle : $360^{\circ}$


The NO: 6

## Operation Steps

Attention:
1, The central point location is $X=0, \quad Y=0$
2. The halving hole hole number is that the angle divides till destination angle from starting point along the clockwise sense.
3. Think that the initiation angle is 00 , ending an angle is 3600 points, ought to be when importing the hole number $(N+1)$

Operation steps:
1, Fix position for zero first with workpiece centre location, ther press enter the ellipse mark of hole function
eg: X, Y axis radius: - $20,30 \mathrm{~mm}$

Initiation angle: - $30^{\circ}$

End an angle: - $360^{\circ}$

The No: - 6


2, Import the x axis radius (R: 20)

by 3 0 0 ent


3, starting point of importation
by 0 ent


The starting point of the original settings


4, input termination perspective
by 3 6 0 ent
Steps


The termination point of the original settings


5, the largest hole of input (number of holes)
6 ent


The original settings, the biggest hole

Steps


Direct access to the processing, if the completion of the processing according to exit


Note: 1 , in the process, according to the operator of
 choose the firstfew holes, it will shake the machine table coordinates 0.000 is the location of the elliptical holes.

2, the importation process, the $Y$-axis will be kept flashing at

## int

after a few tables will be automatically entered in the next step 3, the operator need to temporarily withdraw from the middle of the "oval-hole" function, ABS returned to the normal state of $X, Y, Z$ ride

Superscript, according to temporarily withdraw from the
and then return to the oval -hole state.

Area-Hole


Features: Chinese TECH-3i sub-slash provide tips for YX processing center in the same plane has been online, and uniform distribution of holes, the operator simply enter the following parameters slash length (first Kongyuan into our final hole center distance) slash angle
(referring to slash X-axis and the angle between the direction of a few holes in the input parameters after a few tables will be automatically calculated slash the location of the hole, the operator according to $\rrbracket$ choose holes, and then shaken to the workpiece X-axis is $0.000,0.000 \mathrm{Y}$ axis position is the location of the hole


Example: For the diagram shows the workpiece, parameter setting is as follows
Area Length: 150 mm
Area angle: - 300
Hole: 6
Steps:
1, turning tools at the first hole slash the first point, and ther click to enter a slash-functional



4, the importation of several slash-hole
Deputy window display "Please enter the biggest hole," Y window
display set up at the last few holes, followed by 6 ent begar processing

5, by 乌 or $\Downarrow$ sutton, select the machining holes, and then shaker to the X -axis machine tool table, Y -axis display the 0.000 " on the location of the points in the hole

Note: The completion of processing
to return to normal by the state showed that in the slash-hole course, the operator can

TAN
temporarily leave the
by the function returned to normal $\mathrm{X}, \mathrm{Y}$ $Z$ coordinates, and then return to the slash- TAN -functional.


Arc processing

Features: TECH-3i Chinese few tips in simple arc processing system, a copper mold of single pieces, such as processing, Universal Milling Machine can easily and quickly processed by the control of the same arc cutting each controlling a smooth arc, cutting of the less smooth processing of the arc, cutting the greater the volume processing more rough arc. The shorter processing time.
A: processing $X Z$ and $Y Z$ plane
Arc processing $X Z$ and $Y Z$ have eight kinds of processing methods, as shown in Fig.


Can be used in the processing of flat-bottomed cutter or circular cutter processing in the use of flat-bottom arc, as a knife from the diameter of 0.000
B: XY plane processing
In the $X Y$ plane processing, it is like eight processing, and processing of the vertical tool, and a way for each quarter
Circular arc for the processing and processing; Therefore, in processing XY plane, it is necessary to choose knife compensation, processing XY plane, it is flat-ended knife or knives, according to the actual value set tools diameter.

Arc processing parameters need to enter the following
Processing of choice
Select processing mode
Inner / outer arc processing options (XY-specific)
To be processed Radius
Tool diameter
Length of each processing
Example 1: To processing as shown arc $A B 900$, from point $A$ to start
processing, the end point $B$, parameter settings are as follows:
Processing side: XY
R processing mode: 3
Processing of Arc
Radius: 20 mm
Tool diameter: 6 mm
Feed: 0.5 mm
Steps:
1, rocking machine worktable, turning tools at point A, X axis cleared
2, entered the arc processing



The original settings plane processing

3, the processing of choice
4, followed by $\wp$ X ent zlect Xy plane into the selection process model


Note: Xy plane by X options

YZ plane by |  | Y |
| ---: | ---: |
| choice |  |

$x z$ plane by |  | $Z$ |
| :--- | :--- |
| choice | (on the two-axis $X$-axis choics | xz plane)

Steps

5, processing choice type


The original processing mode

6, select inner / outer arc processing


Note: The choice by ent Set in the original arc processing


7, the importation of Radius
Peputy window display the "Enter Radius" Y-axis settings of the original window radius; followed by the importation of $\mathbf{2} \quad 0$ ent completed radius


Deputy window display "Please enter diameter cutter" Y-axis settings of the original window tool diameter; followed by the importation of

6 ent completed diameter cutter


Tool diameter of the original settings


9, each input processing length
Deputy window display "Please enter Stepping length of the" Y original settings window each processing length; followed by $\mathbf{0}$ • 5 ent for each input processing length, arc into the processing


The original settings length


10, processing arc
Deputy display window "processing No. 1" to the X Window processing, Y window display of " 0.000 ", the first point to complete processing, and then start processing the second by $\square$ points, repeat the last operation, has been processing the Deputy window display as "processing No. 72"


11, exit

by the end processing

Note: In the arc in the process, the operator can temporarily leave
$\square$ $R$ function returned to normal $X, Y, X$-axis, then return tc

```
TAN
the arc processing function TAN
```



```
Smooth arc processing to enter the following parameters
Processing of choice
Select processing mode
Inner / outer smooth arc processing options (X, Y-specific)
X, Y-axis coordinates of the location of origin
Smooth radius to be processed
Tool diameter
Length of each step of processing
Starting point of view
End perspective
Example l: machining surface: XY
Processing of Arc
X, Y-axis origin coordinates: (20, 30)
Radius: }15\mathrm{ mm
Tool diameter: 20 mm
Stepping in: 6 mm
Starting point of view: 00
The termination point of view: 3600
Smooth arc processing steps:
1, rocking machine table, tool aimed at the smooth processing takes
place starting point arc, each axis cleared.
```




3, planar processing options, press $队 \mathrm{X}$ or | B | Y keys to choose. |
| :--- | :--- |

4, by $\sqrt{3}$, and then choose from within the arc arc processing on processing.


5, by
 for the selection of Arc processing, according to within $\quad$ arc processing. If you choose to face $Z X, Y Z$ plane, the direct input of the coordinates of the origin location of the origin of the $X Y$ coordinates position refers to the processing smooth ard relative to the center position by-0.1 ent

6, X axis coordinates input by ent; input $Y$-axis coordinate value ent

Steps


7, the importation of smooth radius, according to ent


8, input tool diameter by
$\square$


9, step length of input by

pent
10, starting point of importation, by ant

Steps


11, the end point of input by ent


12, such as liquid crystal display


13, will show zero-axis machine tools. $R$ which is the starting point
for processing. By

display a processing point. Machine Tool Show then moved to zero axis. Repeat operations to complete all processing is completed processing.


Slant processing

Features: TECH-3i Chinese few tips to provide a significant slope processing automatically calculate processing function, the operator can type the following parameters
Plane processing options (XY, YZ, for the slant processing XZ plane) Slant angle (in the XY plane and the $X$-axis slant that positive angle in the $Y Z$ plane with the $Y$-axis slant that positive angle)


Each processing slant length
After several significant input parameters Table hypotenuse will be automatically calculate the location of each point, the operator by
 option processing serial number, and then turning tool processing to the two axes of the plane showed that the value of 0.000 for all locations
Example: processing as shown slant $A B$, parameter settings are as

Plane Processing: $x z$

Slant angle: 450


Each processing slant length: 1.2 mm
steps

1, machine tool spindle tilt table 450 , rocking machine processing workstations at the slant-A start, the X-axis cleared, Z-axis cleared. In the normal display by $\mathrm{X}_{0}$ Zo


2, by
 processing functions will be inclined to enter parameter input, processing by the state directly to ent

ABS absolute


The original settings plane processing

3, the processing of choice

|  | 2 |
| :--- | :--- |
| ent |  | and then choose $x z$ plane to enter the next step "input bevel angle"

Note: XY plane by X choice

YZ plane by |  | Y |
| :--- | :--- | choice

$x z$ plane by |  | $Z$ |
| :--- | :--- |
| choice |  |



4, slope angle input
Deputy window display "Please enter slant angle .." Y-axis settings
of the original slant angle.press 4 ent


The slant angle of the original settings


5, each input processing slant length
peputy window display the "Z-axis stepper type of" Y-axis stepper

Steps


6, processing slant

Deputy display window "processing No. 1" to the X-axis lathe tool processing, and Z-axis showed that the first point 0.000 processing completed by under then processing point 7, at 乌 or $\Omega$ in the switch between the points

8, processing has been completed, showed that by
 the state to return to normal

## EDM

EDM machining functions EDM

Use only the processing of input can be processed

Example: processing - a depth of 10 mm in parts:
1 , the copper surface after the collision in the $Z$-axis cleared


EDM
by entering EDM functions


3, the depth of insertion 10


Upon completion of the above steps can be EDM. Processing place, protecting the auxiliary show at this time to withdraw from the EDM, according to EDM can be


Note:
In the second step, if the X -axis no data (shown as 0.000 ), show support for the "EDM machining finished", can not be placed at the depth of need in the $Z$-axis EDM not cleared before entering, the Home a depth of the $z$ and then to operate.

EDM functions output wiring
TECH-3I to provide a significant number of EDM specific features wher the copper electrode has reached the depth of user settings,

TECH-3i digital display table in the relay switch signal will be issued, EDM machine will stop.

## Connection of single-outputicon

TECH-3i digital display table back a DB9 socket, the socket is the TECH-3i digital output table EDM relay at the wiring. Wiring pin and methods are as follows:
(Yellow) (red) (black)


To process with the "closed" in place of "open" access: 2 and 3 feet (normally closed) to the process as "open" in place of "closure" to: 1 to 2 feet (normally open) often open to the general control. Note: the carton configuration of an output control.

A plus or minus direction switch
Features: You can fine-tuning the direction of the axis of plus or minus
Example: by
볼
button to enter the parameter settings

By to the "X-axis count switching positive", and then switch
the direction of


By $\sqrt{\sqrt{3}}$ can choose $Z$-axis or $Y$-axis direction switch completed

By ce exit
Second, SDM coordinates input mode switch
After entering the basic parameters, according to the
 choice "SDM coordinates input mode switching," and then switch ent

When SDM model "0", input data for the actual value
When SDM model for the "1", contrary to input data for a few

Advanced users

```
, Advanced users settings
```

1. Enter the parameters set by
 according to the choice of "internal Preferences"

2, And then the right of the LCD window will show "Password:

| 3. input Password | 3 | 2 | 1 | 1 |
| :--- | :--- | :--- | :--- | :--- |

- ., Resolution settings

After entering advanced users based on user configuration requirements from the production home settings, users must not lose chaos on chaos, otherwise prevented normal use. Functional disorder caused by the software must be sent back to the manufacturers to set up, otherwise no warranty.

1, in the senior user settings, the LCD window on $\begin{aligned} & \text { Setup parse } \\ & \text { Press UP or Dow }\end{aligned}$
ent tips enter resolution settings, and our digital form can be carried out separately for each axis resolution settings.


Fault Analysis and Processing

| Fault | Analyze the causes | Approach |
| :---: | :---: | :---: |
| Do not show | 1, missed good power <br> 2 , a tributary of 110 V power supply voltage is not within the scope of ~ 220 V | 1, power line inspection plug and socket <br> Interpolation is strong, whether good contact. <br> 2 , inspection of a significant form of insurance is good. <br> 3, tests whether the input voltage $110 \mathrm{~V} \sim 220 \mathrm{~V}$ range. |
| Shell Charged | 1, grounding bad <br> $2,220 \mathrm{~V}$ power leakage | 1, machine tool bed with a few significant leader Connectivity, and power requirements of the earth The same. <br> 2, machine Chuangjiao such as plastic mats, the ground power supply must be linked to good ground, or else they affect low-voltage power supply of sensors operating inconvenient. <br> $3,220 \mathrm{~V}$ power leakage, speed electrician requested formal inspection, there are still problems such as Please contact with the manufacturers of the service. <br> 4, please do not access FireWire 380 V Power Zone, to avoid burn a few significant power or form factors of insecurity, affecting the operator's personal safety. |
| Axis showed a value of twice the normal | 1, optical grating resolution settings incorrect <br> 2, a set-axis diameter display mode | 1 , set the correct resolution <br> 2 , the radius pattern display settings |


| Fault | Analyze the causes | Approach |
| :---: | :---: | :---: |
| $\mathrm{X}, \mathrm{Y}$ window display confusion, numerical No laws, inaccurate | Table may be in power a few bad contact, Affected by the power disruption | 1, a few tables in the power-down and then re-opened, a few significant forms can be automatically scans of their own-one. <br> 2, if the first step is not operating the trip, please refer to the specification of-way. <br> 3, if the next step is still unable to rule out the possibility of the service, please contact manufacturers. |
| Table axis of a significant number do not count | 1, grating-foot table with several significant contact is good. <br> 2, no grating signal output device. <br> 3, check optical <br> grating-foot body, feet first is the normal installation, whether users limit themselves demolished, rendering the first reading by ultra-foot trip Penghuai body. <br> 4, a few tables in the axis counting problems. | Another axis grating and see whether they can change their normal count, if transplanted to normal after a device is the root counting device malfunction. Customers are requested to speed the above issues and service companies associated with the Department. |


| Table count several <br> significant errors that distance and the actual distance inconsistent | 1, machine tool accuracy Guide bad. <br> 2, machine tool running too fast. <br> 3, sub-grating device installation requirements of the parallel device did not adjust well, whether on Connecting Plate ministries firmly installed. <br> 4, the grating set foot resolution inconsistent with the actual resolution. <br> 5, linear error compensation value is not set up correctly. <br> 6, grating bad feet, and missed a few. | 1, maintenance or transfer Machine Tool Guide is space. <br> 2, reducing the speed. <br> 3, reload grating feet firmly ministries to install on Connecting Plate. <br> 4, set the correct resolution. <br> 5 , set the correct value of the linear error compensation. <br> 6, repair or replacement of optical grating. |
| :---: | :---: | :---: |

K


[^0]:    TECH-3i chinese prompt the dataview table provide three coordinates: ABS, INC, SDM (SDMO-SDM299)。300 Group user coordinate can use to assistant zero in opeating.ABS is absolutent
    coordinate. it's established at the begin, it used to be the datum mark of processing workpiece. the $\operatorname{SDM}$ is defined relative to absolutent coordinate..

