

命令模式

THRust "description", force [@ h1 [, f2 @ h2]...] [lcf ,tcf, vcf] [/UNCONDitional] [/MAX: maxforce]

Defines a thrust force applied at a point on the ship, directed perpendicular to the ship's vertical axis and offset from the ship's transverse axis by an angle equal to any AXIS setting.

定义一推进器的推力作用在船舶的某一点上，此力的方向垂直于船舶的垂向轴，像转轴的设置相同，可以和横向水平轴成任何角度。

THRust ["description"] OFF

Deletes a thrust force, or all thrust forces if no description is given.

关闭一推进器力，如果不指定名称描述，将关闭所有的推进器力。

THRust [REPort]

Displays all thrust forces (to the screen only if REPORT is absent).

显示所有的推进器力（如果不附加 REPORT, 只是屏幕显示）。

参数说明

"description"

Up to 25 characters (must be enclosed in quotation marks if more than one word).

最多 25 个字符（如果多于一个单词时，必须用双引号引起）。

force

The magnitude of the thrust force, in the current weight units (see the UNITS command). The force is only effective when the thrust point is submerged, unless /UNCOND is present. Positive force pushes from starboard to port; negative force pushes from port to starboard.

推进器的最大力，当前的重量单位为单位（查看 UNITS 命令）。只有在推进器的点位于水面以下时，推进器的力才有效，除非出现参数/UNCOND。右舷推向左舷的力为正，左舷推向右舷的力为负。

f1 @ h1 [, f2 @ h2]...

Specifies an arbitrary thrust force function of heel, to be used in place of a single force parameter. The force is as specified for each given heel angle, linearly interpolated between adjoining angles, and holding the last value beyond the given range. If all heels are non-negative, the force function reflects to port as well. The force values must not switch sign. Load Editor supports thrust force changes at any heel by scaling the force function.

设定随横倾角度变化的推进器力函数，来代替单一推进器力。指定每一横倾角度时的推力，在相邻的横倾角度间进行线性插值，保持最后的值在给定的范围以外。如果所有的横倾都是正值，力值不能改变符号。在装载编辑器中可以通过比例缩放函数关系来改变推进器的力。

lcf, tcf, vcf

The location of the thrust force in current length units, relative to the origin. Must be given in longitudinal, transverse, vertical order. MIN or MAX can be used in place of tcf to specify the minimum (portmost) or maximum (starboardmost) values at the given lcf and vcf on the surface of the vessel. Likewise MIN or MAX can be used in place of vcf for the lowest or highest displacer points at given lcf and vcf. PMIN and PMAX act like MIN and MAX but only consider components with positive effectiveness.

推进器推力相对于坐标原点的位置，单位为当前的长度单位。顺序一定为纵向，横向和垂向。MIN 或 MAX 可以替代 tcf 表示在给定 lcf 和 vcf 船舶平面的最左端（最小值）或最右端（最大值）。同样 MIN 或 MAX 可以替代 vcf 表示在给定 lcf 和 tcf 船舶平面的最下端或最上端。

/UNCONDITIONAL

Causes the thrust force to be effective even when its location is not submerged.

/UNCONDITIONAL 可以使推进器力同样有效即使推进器位置位于水面上。

/MAX: maxforce

Establishes a maximum thrust force for the item as a guideline for the operator when using Load Editor. Also fixes the CG locations in Load Editor. If maxforce is 0, then the CG locations are fixed without showing a "Load%" value.

设定推进器最大推力，为操作者使用装载编辑器时提供参考，同样在装载编辑器中锁定重心位置。如果最大力为 0，重心位置被锁定不显示附加"Load%"的值。

Operation

操作

A thrust force is defined by specifying its description, value, and location. Once defined, the thrust force value can be changed without restating its location. A thrust force is only effective when its location is submerged unless /UNCOND is present. The force magnitude can be specified as either a single value or as a function effective over a range of heels. THRUST OFF deletes thrust forces.

通过设定名称描述，力大小和位置，来定义推进器推力。一旦定义完毕，推进器的力可以被修改而不必重新设定它的位置。推进器的力只有在水面以下时才有效，除非出现参数/UNCOND。推进器的力可以被设定为单一值或与横倾角度为函数关系的值。THRUST OFF 将关闭所有推进器的推力。

The moment effects of thrusts are itemized in the HMMT REPORT, and their displacement effects are itemized by STATUS THRUST and STATUS DISPL reports.

命令 HMMT REPORT 会列出推进器产生的横倾力矩。命令 STATUS THRUST 和 STATUS DISPL 可以列出推进器推力对排水量的影响。

Display Output

输出显示

THRUST REPORT produces a table listing each thrust force's description, location, and depth. Unconditional thrusts are marked with an asterisk.

THRUST REPORT 会生成表格列出每一推进器的名称描述，位置和深度。不受位置影响 (/UNCOND) 的推进器会用星号做标记。

Nondisplay Output:

无输出显示

none.

无

Examples

样例

Defining a thrust from starboard:

定义一右舷推进器力:

```
THRUST "Thruster" 100 30 10 5
```

Changing the trust to come unconditionally from port:

定义左舷推进器不受环境影响:

```
THRUST "Thruster" -100 /UNCOND
```

Changing the thrust force to a function of the current heel:

改变推进器力使力和当前横倾为函数关系:

```
THRUST "Thruster" 100 @ 0, 50 @ 20, 25 @ 40
```

Deleting the thrust force:

关闭推进器推力:

```
THRUST "Thruster" OFF
```

Reporting all thrust forces:

报告显示所有的推进器力信息:

```
THRUST REPORT
```