CLAIMS

1. A machining center comprising:

a guard that covers a processing portion of a machine tool; and

an openable and closable operation door provided at a front of the guard,

wherein: the operation door is arched along a vertical direction from a surface of the guard;

the guard is provided with LED display means; and

the operation door is made of carbon fiber.

2. The machining center according to claim 1,

wherein: the LED display means is formed to be half-round; and

the LED display means protrudes from the surface of the guard.

3. The machining center according to claim 1 or 2,

wherein the LED display means is provided adjacently to a side of the operation door.

4. The machining center according to claim 1 or 2,

wherein the LED display means is provided in an area distant from the side of the operation door.

5. The machining center according to any one of claims 1 through 4,

wherein the operation door is curved on an arched line that reaches a highest point at its center and lowers toward top and bottom ends.

6. The machining center according to any one of claims 1 through 5,

wherein: the operation door is provided with a handle used to open and close the operation door; and

the operation door is curved on the arched line that reaches the highest point at its center and lowers toward the top and bottom ends.

7. The machining center according to any one of claims 1 through 6,

wherein the LED display means uses a plurality of colors to distinguish displayed information by color.

8. The machining center according to any one of claims 1 through 7,

wherein an operation panel is provided rotatably around a vertically extending rotary shaft between a front position and a side position of the machine tool with reference to the guard.

9. An openable and closable tool operation door provided at a tool front,

wherein: an arched door portion is arched from a cover surface of a tool body; and

a side of the arched door portion is provided with LED

display means shaped similarly to one of a line and a belt.

10. The tool operation door according to claim 9,

wherein the LED display means is provided for one of and otherwise both of two sides of the arched door portion.

11. The tool operation door according to claim 9 or 10,

wherein the LED display means is provided for an intermediate area between front and rear edges of the side of the arched door portion.

12. The tool operation door according to any one of claims 9 through 11,

wherein the LED display means is provided for the front edge of the side of the arched door portion.

13. The tool operation door according to claim 1, wherein a head cover provided in the machine tool is made of carbon fiber.

14. The tool operation door according to claim 1, wherein a back-side cover of an operation panel provided in the machine tool is made of carbon fiber.

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1. A machining center comprising:

a guard that covers a processing portion of a machine tool; and

an openable and closable operation door provided at a front of the guard,

wherein: the operation door is arched along a vertical direction from a surface of the guard;

the guard is provided with LED display means; and

the operation door is made of carbon fiber

wherein: the LED display means is formed to be half-round; and

the LED display means protrudes from the surface of the guard.

2. The machining center according to claim 1,

wherein the LED display means is provided adjacently to a side of the operation door.

3. The machining center according to claim 1,

wherein the LED display means is provided in an area distant from the side of the operation door.

4. The machining center according to anyone of claims 1 through 3,

wherein the operation door is curved on an arched line that reaches a highest point at its center and lowers toward top and bottom ends.

5. The machining center according to anyone of claims 1 through 4,

wherein: the operation door is provided with a handle used to open and close the operation door; and

the operation door is curved on the arched line that reaches the highest point at its center and lowers toward the top and bottom ends.

6. The machining center according to anyone of claims 1 through 5,

wherein the LED display means uses a plurality of colors to distinguish displayed information by color.

7. The machining center according to anyone of claims 1 through 6,

wherein an operation panel is provided rotatably around a vertically extending rotary shaft between a front position and a side position of the machine tool with reference to the guard.

8. The machining center according to claim 1, wherein a head cover provided in the machine tool is made of carbon fiber.

9. The machining center according to claim 1, wherein a back-side cover of an operation panel provided in the machine tool is made of carbon fiber.