



US00D932525S

(12) **United States Design Patent** (10) **Patent No.:** **US D932,525 S**  
**Son** (45) **Date of Patent:** **\*\* Oct. 5, 2021**

(54) **MACHINE CENTER**  
(71) Applicant: **DOOSAN MACHINE TOOLS CO., LTD.**, Chang-Won-si (KR)  
(72) Inventor: **Heedong Son**, Changwon-si (KR)  
(73) Assignee: **DOOSAN MACHINE TOOLS CO., LTD.**, Chang-Won-si (KR)  
(\*\*) Term: **15 Years**

D311,775 S \* 10/1990 Brown ..... D25/1  
D334,985 S \* 4/1993 D'Agostino ..... D25/1  
D336,479 S \* 6/1993 Shuji Shinagawa ..... D15/135  
D455,456 S \* 4/2002 Angelbeck ..... D18/57  
D459,390 S \* 6/2002 Teodorescu ..... D18/53  
D495,723 S \* 9/2004 Kawamura ..... D15/127  
D543,222 S \* 5/2007 Pester ..... D15/145  
D544,534 S \* 6/2007 Reece ..... D18/53  
D548,754 S \* 8/2007 Itabashi ..... D15/122  
D548,755 S \* 8/2007 Takeshima ..... D15/122  
D559,283 S \* 1/2008 Takeda ..... D15/127

(Continued)

(21) Appl. No.: **29/697,763**  
(22) Filed: **Jul. 11, 2019**

**OTHER PUBLICATIONS**

Doosan Machine Tools, DBM Series, (site visited Jan. 13, 2021), Doosanmachinetools.us, URL:<https://www.doosanmachinetools.us/machining-centers/bridge-mill/dbm#!> (Year: 2021).\*

(30) **Foreign Application Priority Data**  
Jan. 11, 2019 (KR) ..... 30-2019-0001695

*Primary Examiner* — Calvin E Vansant  
*Assistant Examiner* — Mark T. Philipps  
(74) *Attorney, Agent, or Firm* — STIP Law Group, LLC

(51) **LOC (13) Cl.** ..... **15-09**  
(52) **U.S. Cl.**  
USPC ..... **D15/122; D15/127**

(57) **CLAIM**

(58) **Field of Classification Search**  
USPC .... D15/122, 145-147, 199; D18/53, 51, 59, D18/35.1, 99; D20/1, 4, 5, 8; D23/315; D24/159, 231, 234; D25/16, 23, 36  
CPC ..... B23K 23/00; B23K 23/02; B23K 23/706; B29C 67/0085; B23Q 3/10; B23Q 1/03; B23Q 17/00; B23Q 17/007; B23Q 17/24; B23Q 11/0891; B23Q 3/15713; B23Q 3/15513; B23B 5/08; B23B 23/00; B23B 3/06; B23B 29/04; B23B 27/007; B22D 11/00; B22D 33/00  
See application file for complete search history.

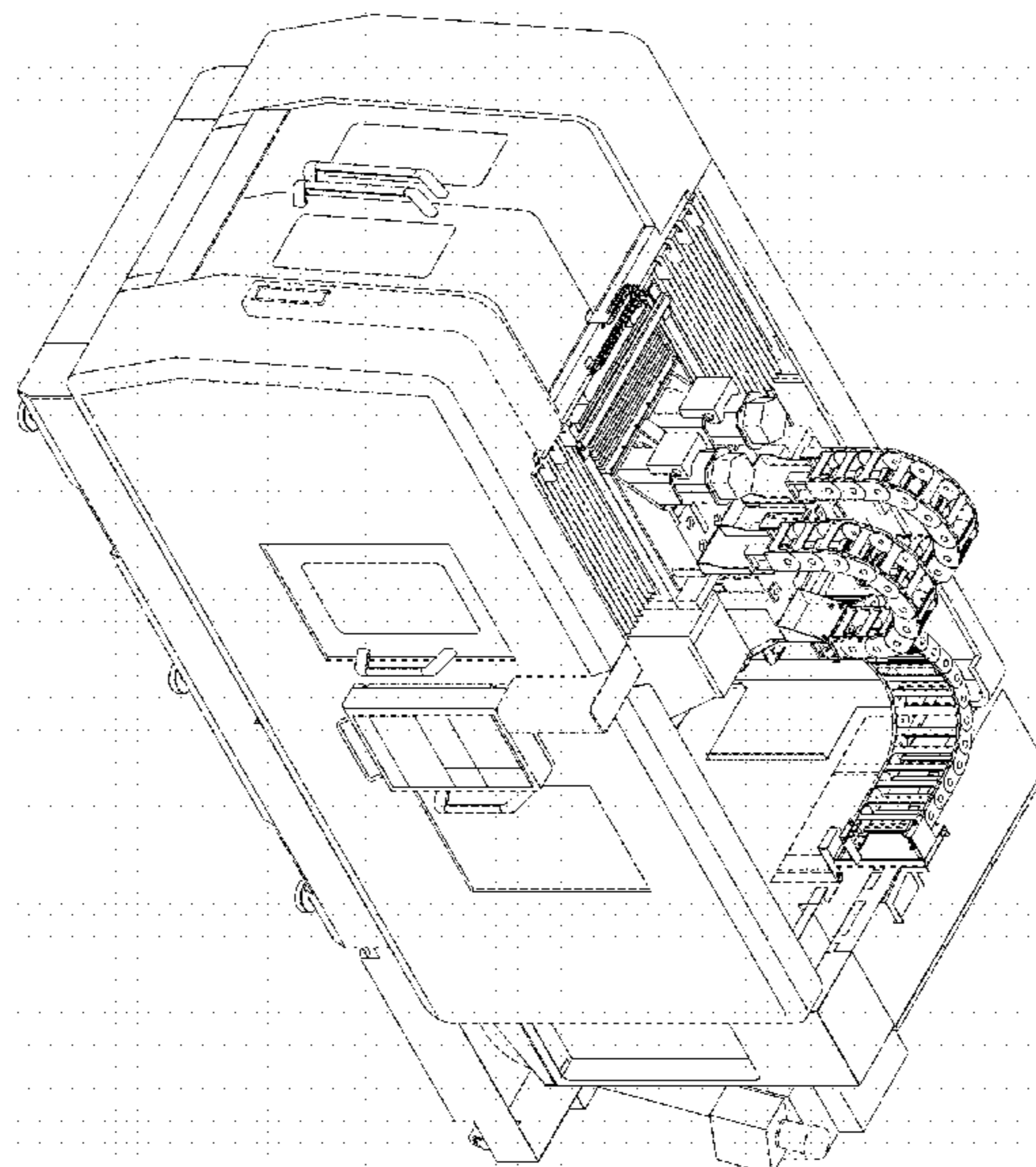
The ornamental design for machine center, as shown and described.

**DESCRIPTION**

(56) **References Cited**  
**U.S. PATENT DOCUMENTS**  
D163,351 S \* 5/1951 Bartholomew ..... D12/102  
D175,225 S \* 7/1955 Lane ..... D20/4  
D197,330 S \* 1/1964 Sundberg ..... D12/104  
D301,890 S \* 6/1989 Silbersky ..... D15/145

FIG. 1 is a perspective view of the machine center, showing the present design.  
FIG. 2 is a front view thereof.  
FIG. 3 is a rear view thereof.  
FIG. 4 is a left side view thereof.  
FIG. 5 is a right side view thereof; and,  
FIG. 6 is a top view of thereof.  
The machine center of the present design is a large-sized heavy item, and the bottom view forms no part of the claimed design and is therefore omitted.  
The broken lines in the figures are used to show portions of the machine center that form no part of the claimed design.

**1 Claim, 6 Drawing Sheets**



(56)

References Cited

U.S. PATENT DOCUMENTS

D559,871 S *	1/2008	Kittaka .....	D15/122	D763,191 S *	8/2016	Shatek .....	D13/112
D614,233 S *	4/2010	Kemmochi .....	D18/53	9,415,474 B2 *	8/2016	Lee .....	B23Q 11/00
D619,166 S *	7/2010	Ishizawa .....	D18/53	D778,329 S *	2/2017	Grobe .....	D15/122
D635,596 S *	4/2011	Hiroshima .....	D15/122	D780,256 S *	2/2017	Clark, III .....	D18/53
D637,631 S *	5/2011	Hiroshima .....	D15/122	D791,204 S *	7/2017	Hynek .....	D15/131
D650,417 S *	12/2011	Brown .....	D18/53	D797,822 S *	9/2017	Grobe .....	D15/122
D651,620 S *	1/2012	Schindler .....	D15/122	D798,917 S *	10/2017	Gallo .....	D15/122
D654,518 S *	2/2012	Miyake .....	D15/122	D811,450 S *	2/2018	Hynek .....	D15/130
D659,174 S *	5/2012	Mueller .....	D15/122	D816,129 S *	4/2018	Albrecht .....	D15/122
D659,728 S *	5/2012	Mueller .....	D15/122	D816,741 S *	5/2018	Nicaise .....	D15/122
D664,570 S *	7/2012	Mueller .....	D15/122	D829,925 S *	10/2018	Labesque .....	D25/33
D666,666 S *	9/2012	Brown .....	D18/53	D861,745 S *	10/2019	Schmid .....	D15/122
D667,031 S *	9/2012	Mueller .....	D15/122	D866,621 S *	11/2019	Gallo .....	D15/122
D667,032 S *	9/2012	Egami .....	D15/122	D868,854 S *	12/2019	Willey .....	D15/122
D673,212 S *	12/2012	Okamoto .....	D18/53	D873,873 S *	1/2020	Sollberger .....	D15/122
D676,881 S *	2/2013	Mueller .....	D15/122	D873,876 S *	1/2020	Bellante .....	D15/145
D683,771 S *	6/2013	Shimano .....	D15/122	D875,826 S *	2/2020	Zanzotti .....	D18/53
D690,331 S *	9/2013	Kitamura .....	D15/122	D880,002 S *	3/2020	Lucas .....	D25/33
D690,745 S *	10/2013	Koide .....	D15/122	D880,546 S *	4/2020	Hehl .....	D15/135
D691,903 S *	10/2013	Tong .....	D10/46	D884,754 S *	5/2020	Andre .....	D15/122
D693,859 S *	11/2013	Kitamura .....	D15/122	2009/0121113 A1 *	5/2009	Yasuda .....	B23Q 1/017 248/429
D694,320 S *	11/2013	Landa .....	D18/53	2013/0061726 A1 *	3/2013	Katsu .....	B23B 5/08 82/1.11
D696,315 S *	12/2013	Schmid .....	D15/122	2014/0069609 A1 *	3/2014	Caihuzac .....	B23Q 11/128 165/67
D700,638 S *	3/2014	Shou .....	D15/123	2014/0319746 A1 *	10/2014	Kozawa .....	B23Q 3/10 269/14
D711,948 S *	8/2014	Son .....	D15/199	2015/0336229 A1 *	11/2015	Nishida .....	B23Q 11/0891 414/222.07
D716,351 S *	10/2014	Kitamura .....	D15/122	2016/0325868 A1 *	11/2016	Bonneville .....	B26F 1/38
D718,353 S *	11/2014	Kato .....	D15/122	2018/0361522 A1 *	12/2018	Fornasero .....	B23Q 11/0891
D745,070 S *	12/2015	Schindler .....	D15/122	2019/0022811 A1 *	1/2019	Roettgen .....	B23Q 11/0891
D753,734 S *	4/2016	Hanschen .....	D15/122	2019/0217436 A1 *	7/2019	Takada .....	B23C 1/06
D757,170 S *	5/2016	Rafa .....	D18/53	2020/0130123 A1 *	4/2020	Iguchi .....	B25J 15/0491
D759,133 S *	6/2016	Kitamura .....	D15/122				
D759,738 S *	6/2016	Schonherr .....	D15/122				
D762,748 S *	8/2016	Schonherr .....	D15/122				

\* cited by examiner

FIG. 1

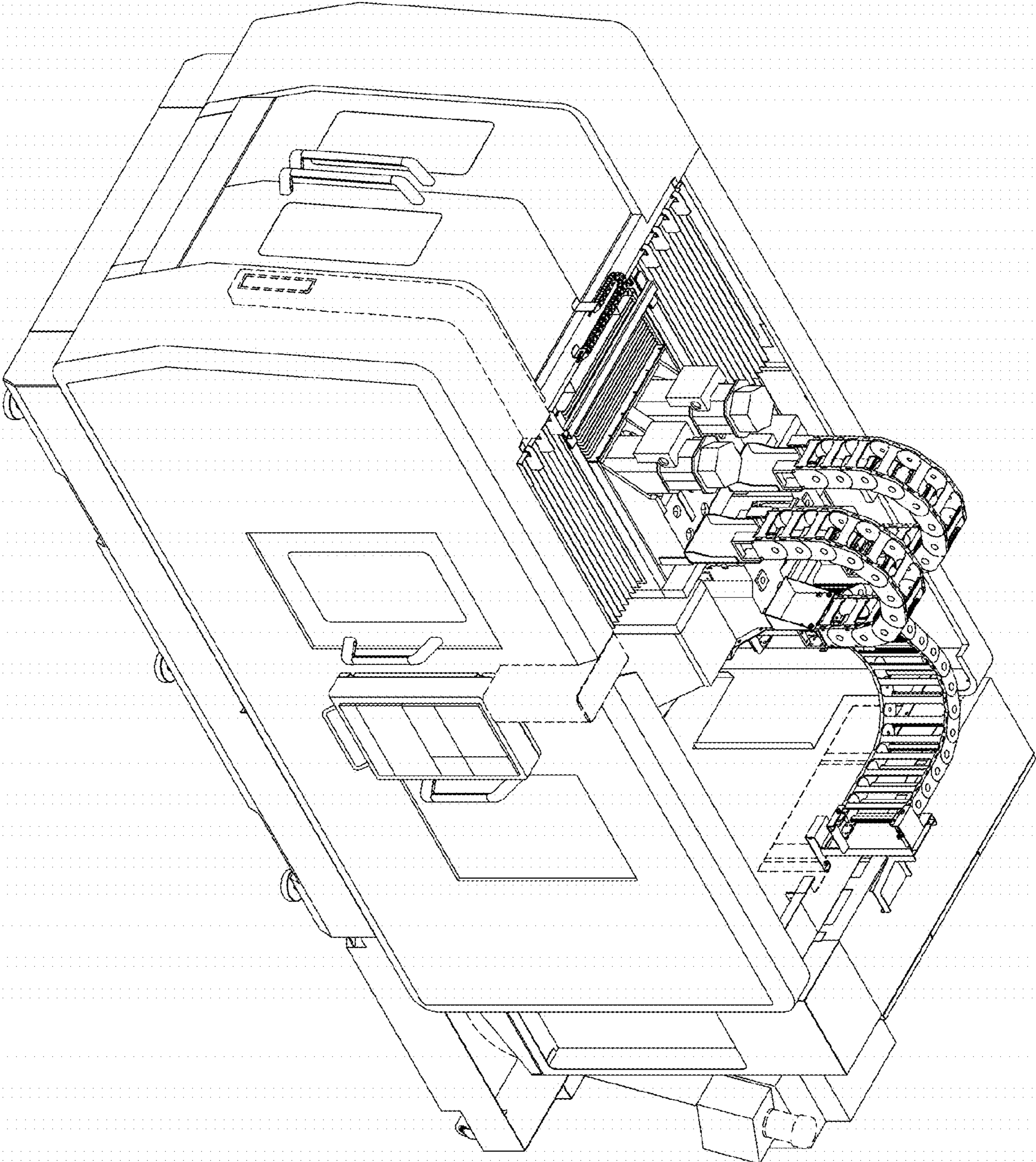


FIG. 2

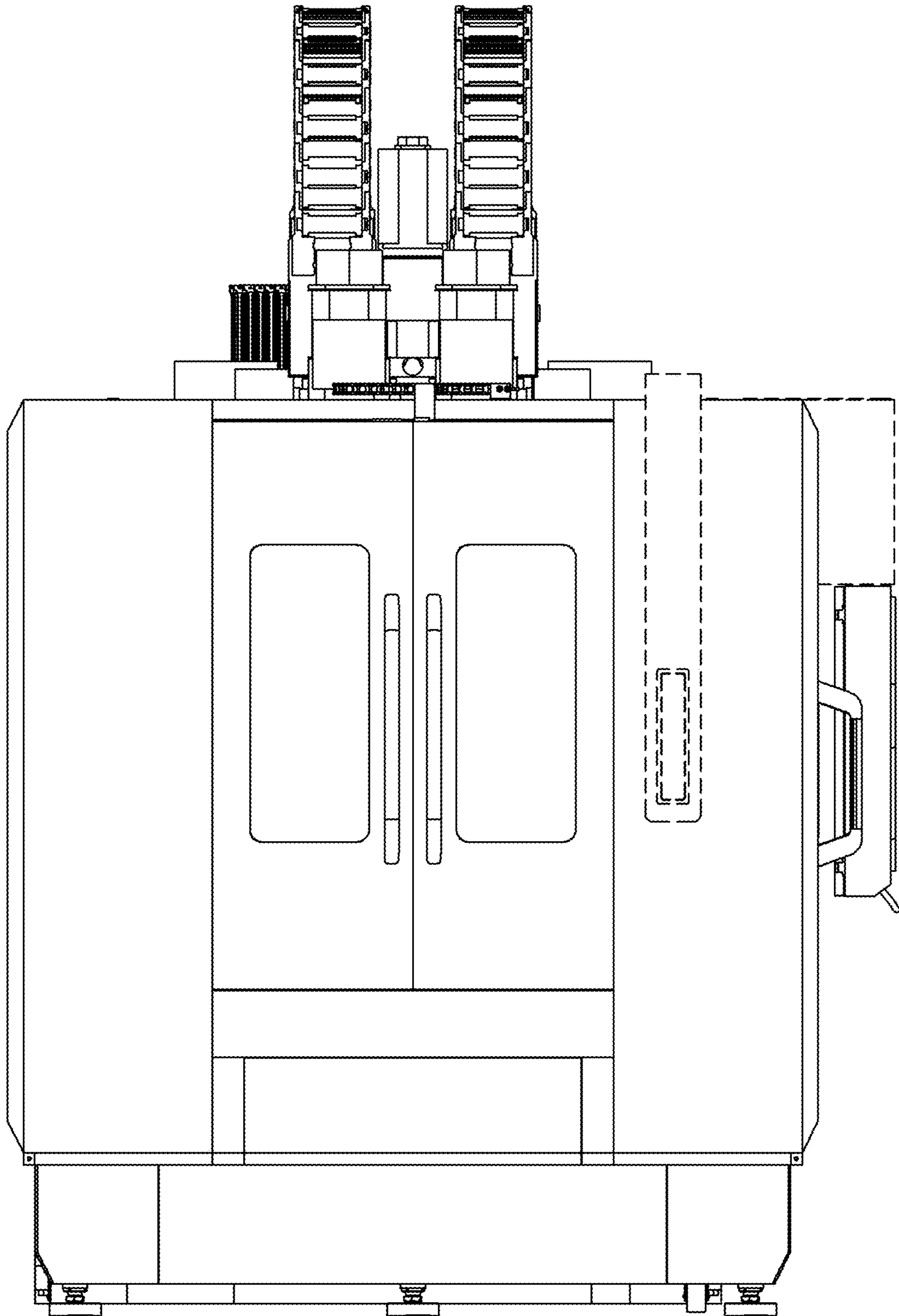


FIG. 3

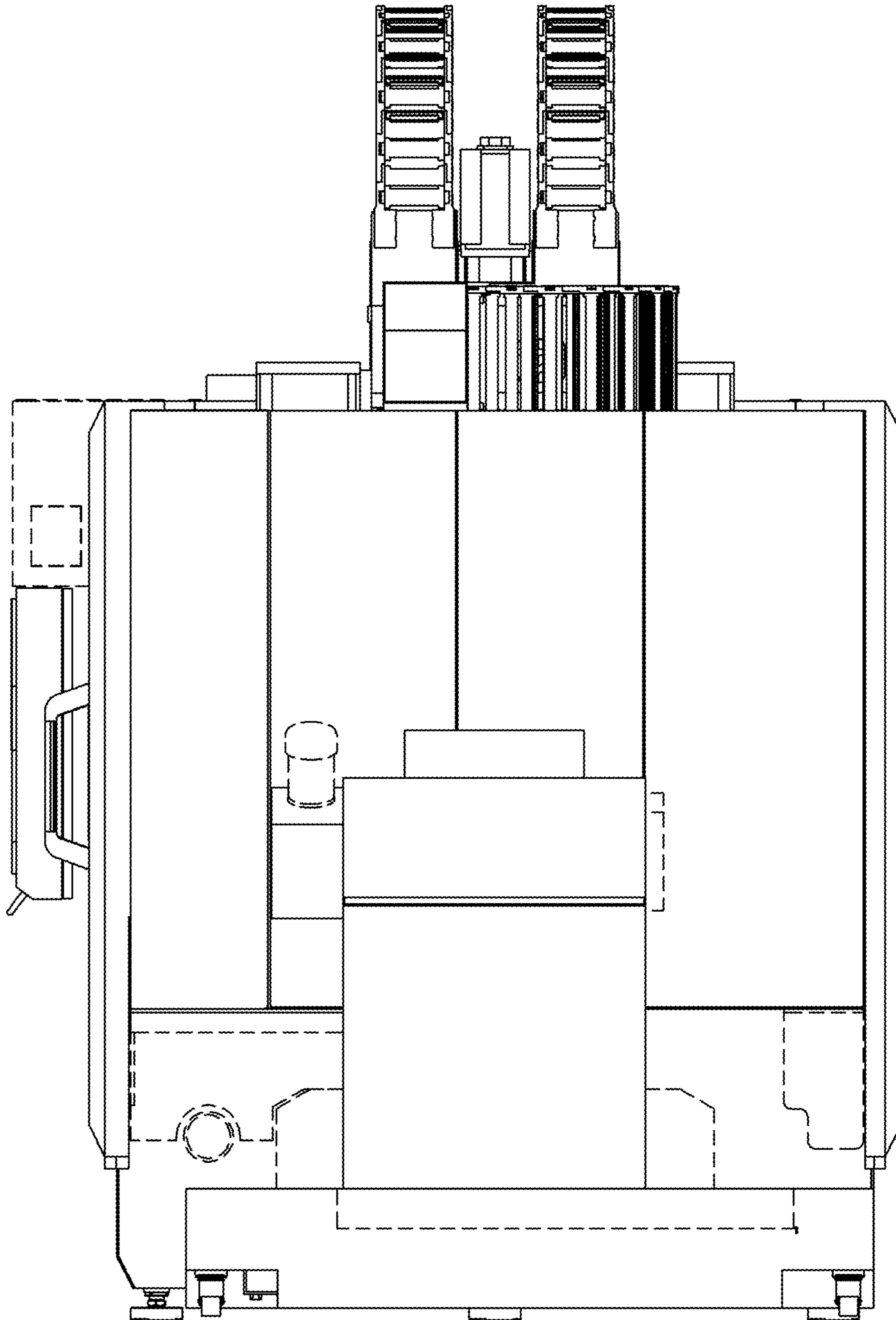


FIG. 4

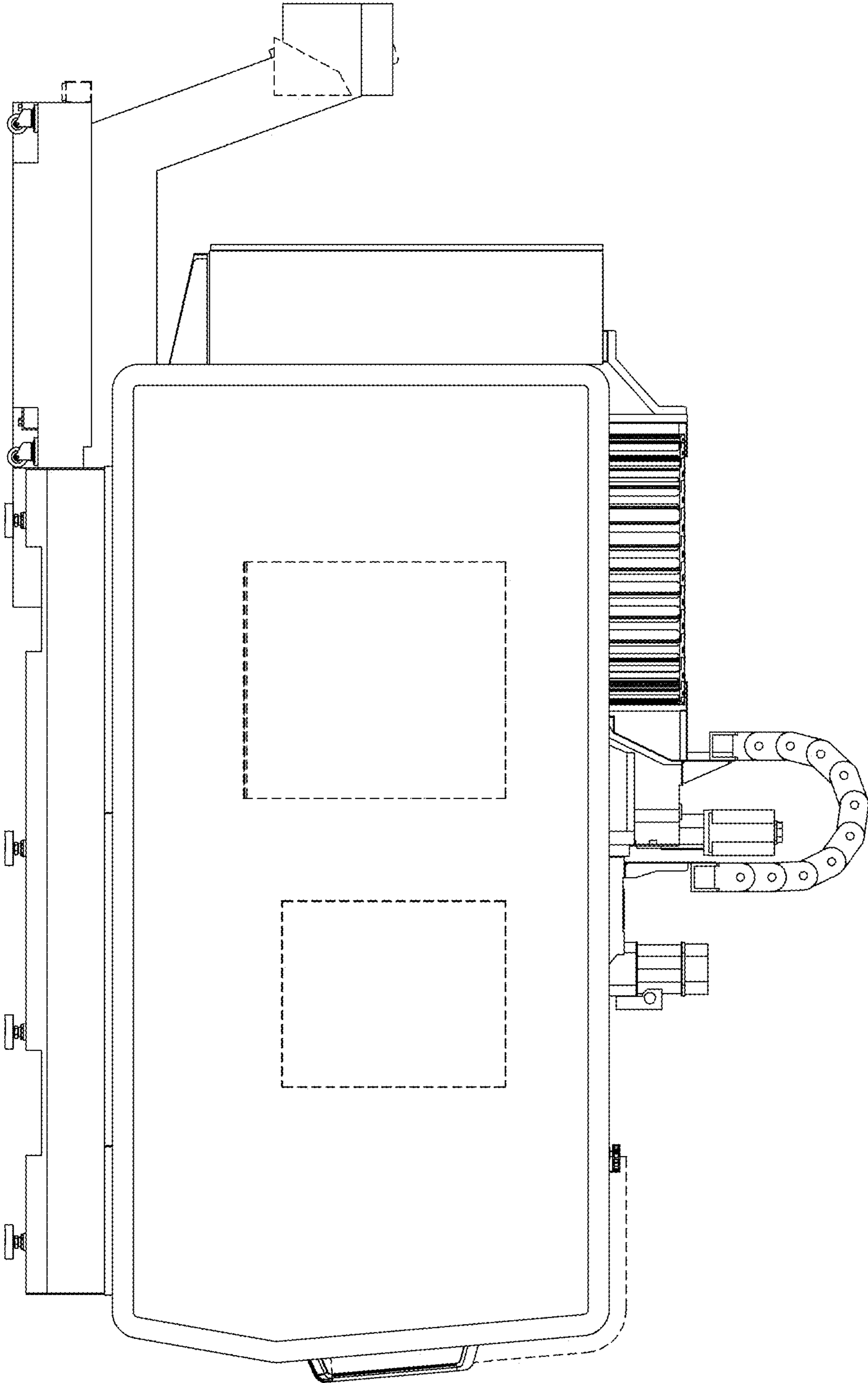


FIG. 5

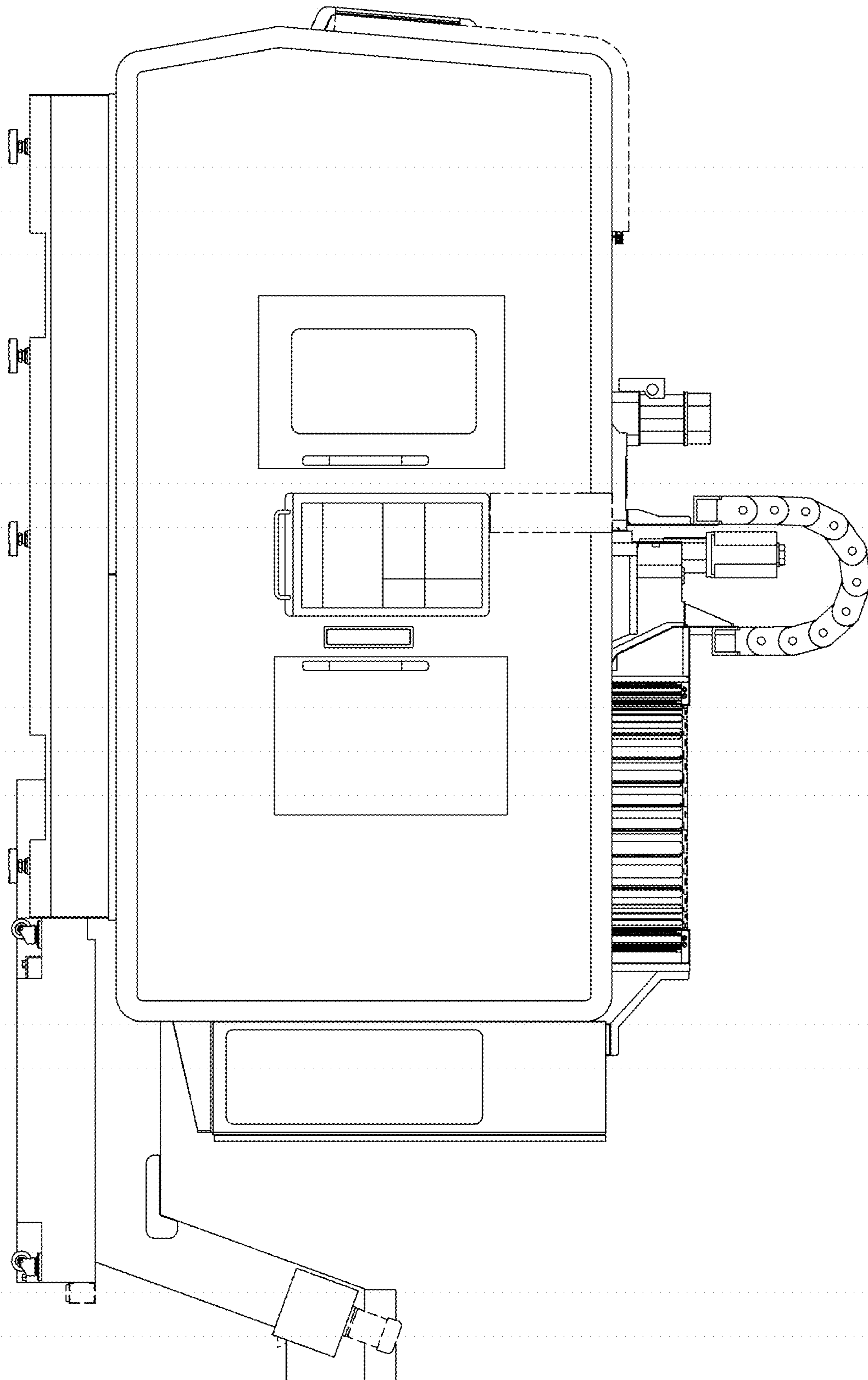


FIG. 6

