

**OOYA**

# ***Radial Drills***

UNIQUE IN DRILLING TAPPING AND BORING ABILITY

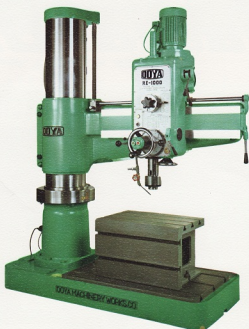
**RE-1000A · 1250A · RE-2 1300A · 1450A**



OOYA MACHINERY WORKS CO.

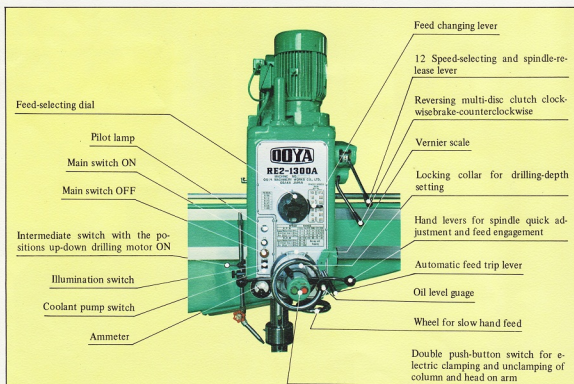
OOYA MACHINERY WORKS CO., LTD.

## RE-1000A



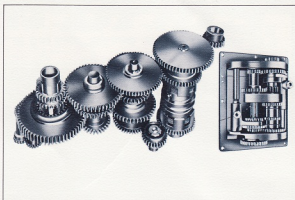
### SPINDLE HEAD

All the operation levers and switches are set at the front of the head for efficient operation of the machine. A wide range of works can be attained by 12 step speeds and 6 step feeds. The machine body is of transmission type and of semi-steel, properly heat-treated. The inside of the spindle cylinder is hardened by way of roller-compression to protect it from defacement. Smooth starting, quick stopping and rapid reverse rotation tapping job can easily be obtained by the built-in multi-disc clutches which consist of steel plates and bronze plates alternately folded. Every revolving portion is automatically lubricated by pumps through quality filters.



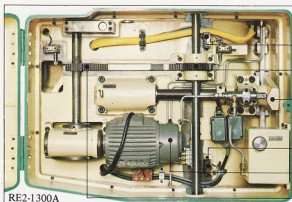
### GEARINGS:

Gears and spindle shafts are of nickel-chrome steel and duly ground, and the built-in antifriction bearings keep smooth machine operation.



### CLAMPING SYSTEM:

Electric clamping system is employed. Head, column and arm being separately clamped from the mechanical point of view, there is no danger at all even if two buttons, clamping and unclamping are pushed simultaneously.



Limit switch for arm elevator at highest position

Pinion for column clamp

Arm clamping cam

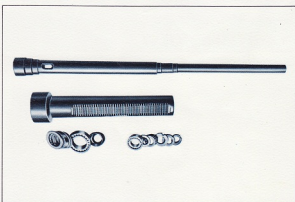
Limit switch for arm elevator at lowest position

Clamp motor

Clamp rack

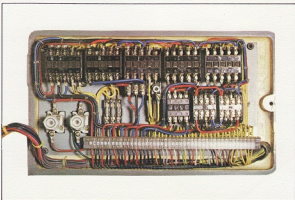
### SPINDLE

The spindle, made of well heat-treated nitric steel, maintains accurate rotation, supported by the cylindrical roller bearing of which the inside diameter is adjustable. The constructional mechanism that the tapered portion of the spindle shank is supported by the bearing performs precision boring jobs in highly efficient roundness and without any distortion to the spindle. The quill is nitro-hardened and provided with rack gears, keeping no fear of defacement.



### ELECTRICALS

All the electricals to be operated by the push buttons at the machine front are built in the control box set at the rear side of the arm, safely guarded from any discharge of the electric motors.





# ■ SPECIFICATIONS

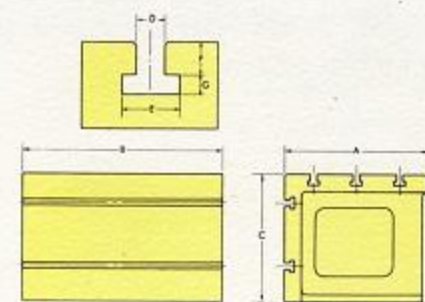
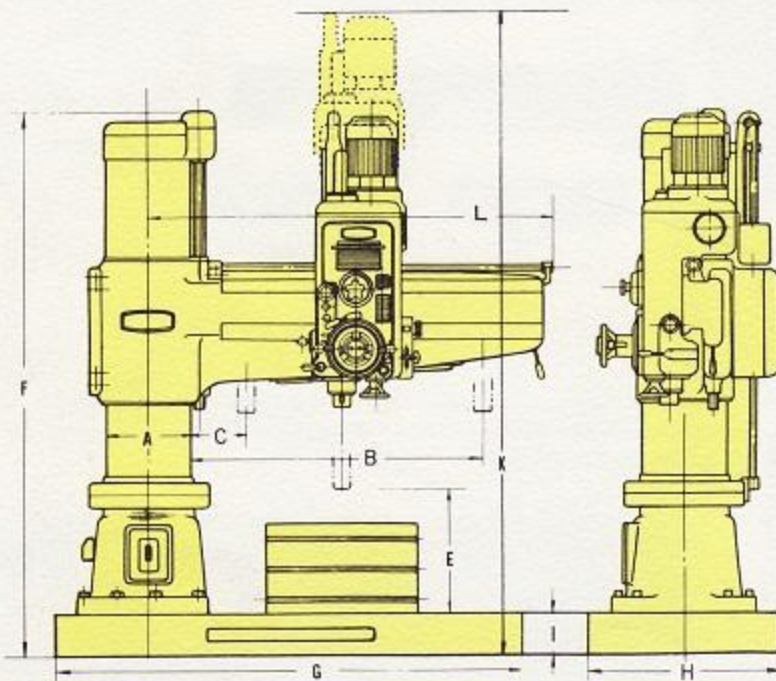
## RE-1000A. RE-1250A. RE2-1300A. RE2-1450A

Model		RE-1000A	RE-1250A	RE2-1300A	RE2-1450A
<b>MACHINING CAPACITY</b>					
Drilling, Solid steel	in. (mm)	1 <sup>3</sup> / <sub>4</sub> (45)	2 (50)	2 (50)	2 (50)
Drilling, Cast Iron	in. (mm)	2 <sup>1</sup> / <sub>16</sub> (52)	2 <sup>3</sup> / <sub>8</sub> (60)	2 <sup>3</sup> / <sub>8</sub> (60)	2 <sup>3</sup> / <sub>8</sub> (60)
Boring in Steel	in. (mm)	3 <sup>1</sup> / <sub>8</sub> (80)	4 (100)	4 (100)	4 (100)
Boring in Cast Iron		6 (150)	7 <sup>1</sup> / <sub>8</sub> (180)	7 <sup>1</sup> / <sub>8</sub> (180)	7 <sup>1</sup> / <sub>8</sub> (180)
<b>SPINDLE</b>					
Diameter of spindle and Ouil	in. (mm)	2 <sup>3</sup> / <sub>8</sub> 3 <sup>1</sup> / <sub>16</sub> (60/78)			
Vertical Travel	in. (mm)	11 <sup>13</sup> / <sub>16</sub> (300)			
Morse-Taper		No. 4	No. 4 or No. 5	No. 5	No. 5
Speed R.P.M. (12 speeds)		50 Hz. 32 ~ 1,655.		60 Hz. 38 ~ 1,985.	
Feeds (6 feeds)	in/rev. (mm/rev.)	0.0032 ~ 0.04 0.08 ~ 1			
<b>DIMENSIONS</b>					
Column diameter (A)	in. (mm)	12 <sup>5</sup> / <sub>8</sub> (320)	12 <sup>5</sup> / <sub>8</sub> (320)	13 <sup>3</sup> / <sub>8</sub> (340)	13 <sup>3</sup> / <sub>8</sub> (340)
Max. distance, column Surface to Spindle Center (B)	in. (mm)	42 <sup>1</sup> / <sub>2</sub> (1,080)	50 <sup>3</sup> / <sub>8</sub> (1,280)	53 <sup>3</sup> / <sub>4</sub> (1,365)	59 <sup>3</sup> / <sub>8</sub> (1,510)
Min. distance, column Surface to Spindle Center (C)	in. (mm)	13 <sup>3</sup> / <sub>4</sub> (350)	13 <sup>3</sup> / <sub>4</sub> (350)	13 <sup>3</sup> / <sub>4</sub> (350)	13 <sup>3</sup> / <sub>4</sub> (350)
Horizontal travel of Spindle Head	in. (mm)	28 <sup>3</sup> / <sub>4</sub> (730)	36 <sup>5</sup> / <sub>8</sub> (930)	39 <sup>7</sup> / <sub>8</sub> (1,015)	45 <sup>5</sup> / <sub>8</sub> (1,160)
Max. distance, base to spindle (D)	in. (mm)	52 (1,320)	52 (1,320)	51 <sup>1</sup> / <sub>8</sub> (1,300)	51 <sup>1</sup> / <sub>8</sub> (1,300)
Min. distance, base to spindle (E)	in. (mm)	15 (380)	15 (380)	14 <sup>3</sup> / <sub>4</sub> (375)	14 <sup>3</sup> / <sub>4</sub> (375)
Vertical travel of arm		25 <sup>1</sup> / <sub>8</sub> (640)	25 <sup>1</sup> / <sub>8</sub> (640)	24 <sup>5</sup> / <sub>8</sub> (625)	24 <sup>5</sup> / <sub>8</sub> (625)
Max. height, floor to top of Column (F)	in. (mm)	85 <sup>3</sup> / <sub>4</sub> (2,180)	85 <sup>3</sup> / <sub>4</sub> (2,180)	92 (2,337)	92 (2,337)
Base Size (G x H x I)	in. (mm)	67 x 30 x 7 <sup>1</sup> / <sub>8</sub> (1,700 x 760 x 180)	75 x 30 x 7 <sup>1</sup> / <sub>8</sub> (1,905 x 760 x 180)	82 <sup>1</sup> / <sub>4</sub> x 33 <sup>1</sup> / <sub>2</sub> x 7 <sup>1</sup> / <sub>2</sub> (2,090 x 850 x 190)	82 <sup>1</sup> / <sub>4</sub> x 33 <sup>1</sup> / <sub>2</sub> x 7 <sup>5</sup> / <sub>8</sub> (2,240 x 850 x 195)
<b>MOTORS</b>					
Spindle drive	kW	2.2	2.2 or 3.7	3.7	3.7
Arm elevation	kW	1	1	1.4	1.4
Clamping	kW	0.4	0.4	0.4	0.4
Coolant pump	W	40	40	40	40
NET WEIGHT (Approx.)	Lb.	5,290	5,730	6,610	7,270
	kg	2,400	2,600	3,000	3,300

\* Elevating speed of Arm. 750 mm/min (50 Hz) (These specifications and weight may be changed without notice)  
900 mm/min (60 Hz)

# ■ OUTLINE VIEW

## ● BOX TABLE



	RE 1000A-1450
A	450
B	650
C	400
D	20
E	38
F	20
G	16

Printed in Japan.