



歐鎂亞科技有限公司 OMEYA TECHNOLOGY CO., LTD.

TECHNICAL FILE

E50 Extrusion Line



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2. Outlook

2-1. $\Phi 500\text{mm}$ Dynamic Pay-off



2-2. Cantilever Type Dancer



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2-3. Preheater



2-4. Φ 50mm Extruder



Hopper



Hopper Loader



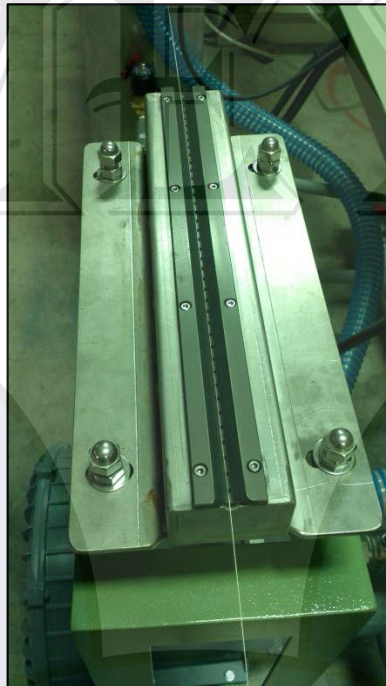
Extruder

TECHNOLOGY

2-5. U Type Warm Water Trough



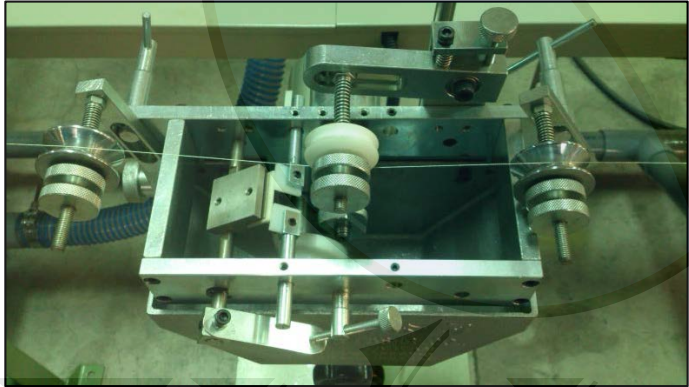
2-6. Dryer



Barrel

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2-7. Printing Machine



2-8. W Type Cooling Water Trough



2-9. $\Phi 350\text{mm}$ Dual Wheel Capstan



2-10. Dancer

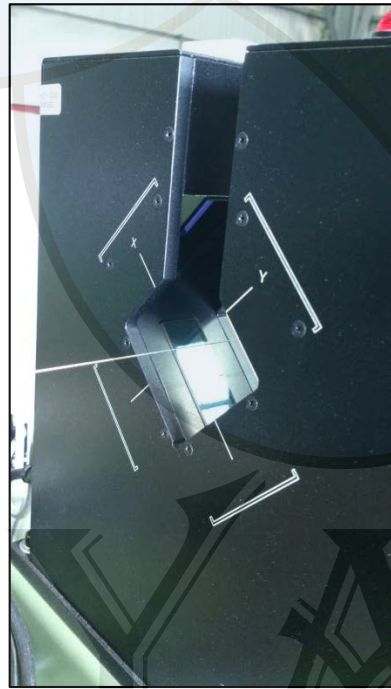


2-11. Laser Diameter Gauge



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2-12. Surface Variation Detector



2-13. Spark Tester



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2-14. Meter Counter



2-15. Automatic Dual Spool Take-up and Counting Event Printer

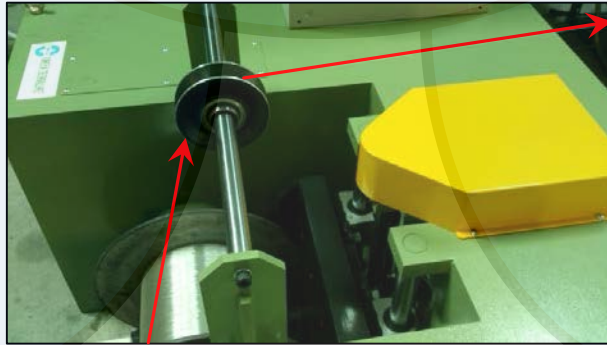


2-16. Electrical Enclosure

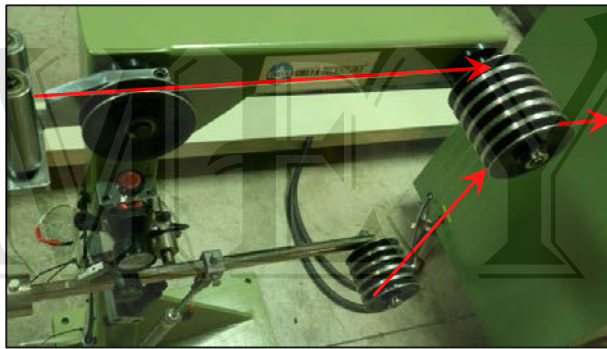


3-3. Wiring Path

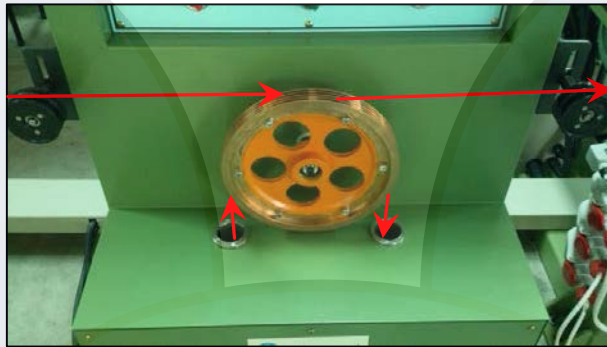
3-3-1. $\Phi 500\text{mm}$ Dynamic Pay-off



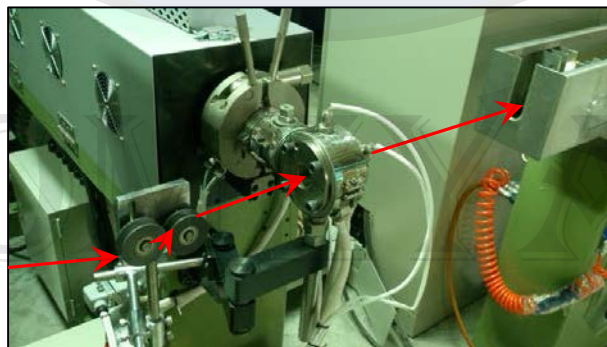
3-3-2. Cantilever Type Dancer



3-3-3. Preheater

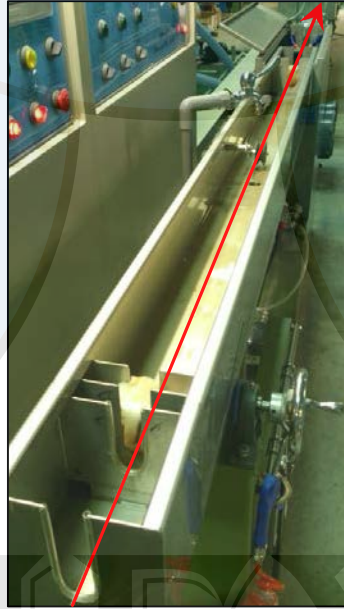


3-3-4. $\Phi 50\text{mm}$ Extruder

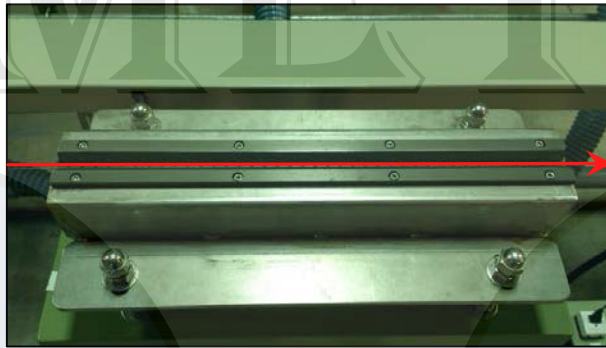


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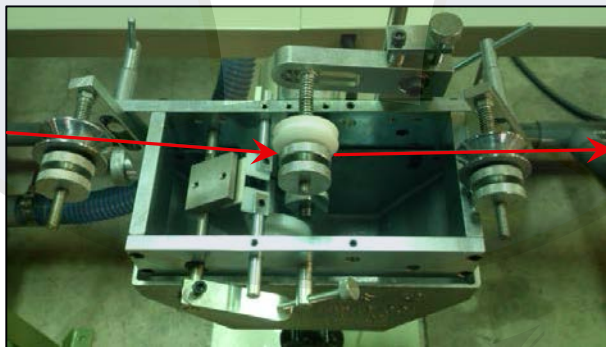
3-3-5. U Type Warm Water Trough



3-3-6. Dryer

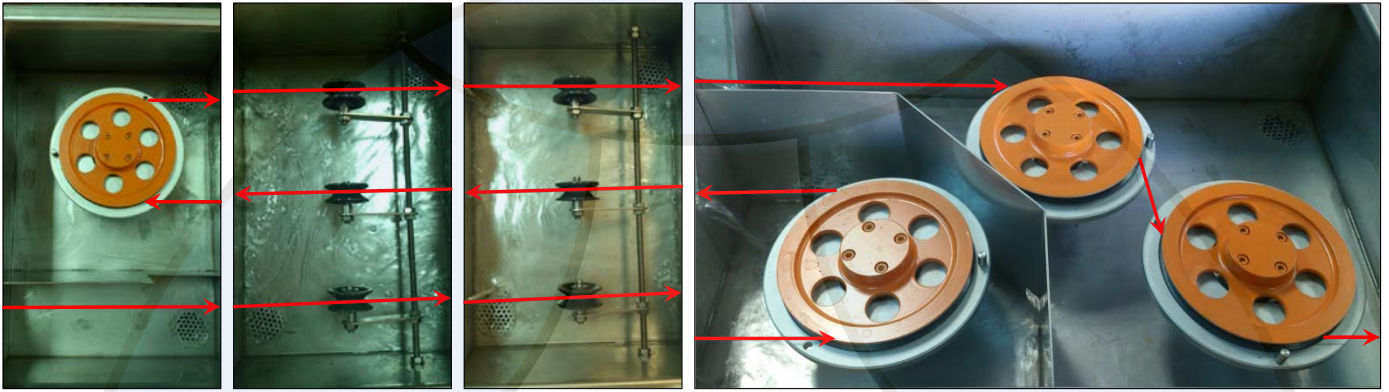


3-3-7. Printing Machine

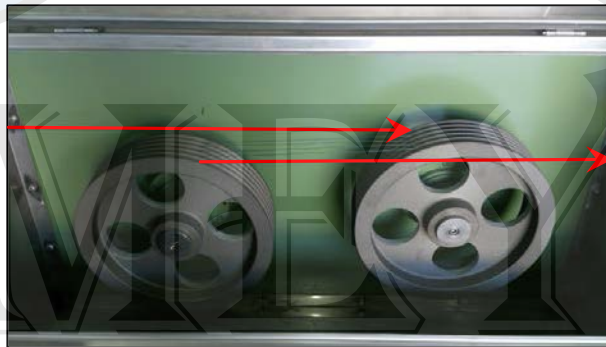


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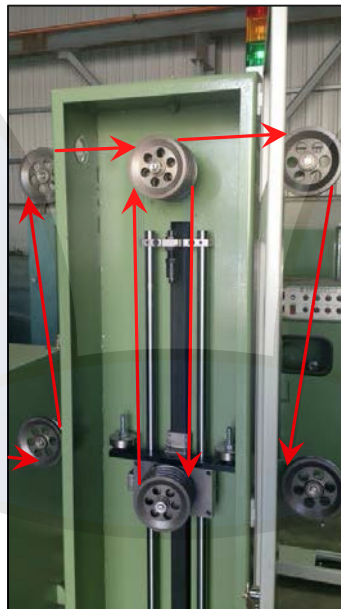
3-3-8. W Type Cooling Water Trough



3-3-9. $\Phi 350\text{mm}$ Dual Wheel Capstan



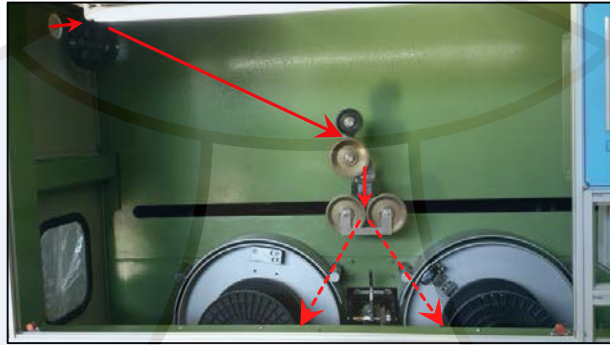
3-3-10. Dancer



3-3-11. Laser Diameter Gauge, Surface Variation Detector and Spark Tester



3-3-12. Automatic Dual Spool Take-up Machine



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3-4-4. HMI Operation (Main Control Panel)

1. Title Screen



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2. Main Page



All pages have common components labeled from A to F:

- A. Logo of OMEYA Technology. This logo button leads to title screen.
- B. Title of current page.
- C. Time. This is the time used for preheating and has nothing to do with the time of automatic dual spool take-up machine.
- D. Back to previous page.
- E. Current production speed.
- F. Total length of production. This is not take-up length. To reset the value, please go to "Control" page.

The components in main page are listed as follow:

1. Set main speed
Main speed is a multiplier of all speeds. For example, if main speed is 50%, and the speed of extruder and capstan are 60% and 40%, the overall output will be 30% for extruder and 20% for capstan. Main speed will only take effect in linking mode.
2. Set extruder speed.
3. Set capstan speed.
4. Current status of extruder.

5. Current status of capstan.
6. Current status of automatic dual spool take-up machine.
7. Graphically displays the status of the extrusion line.
 - In mono mode, the whole line becomes blinking white.



- If e-stop is triggered, the whole line becomes blinking red.



- If local alarms occurred, the local part becomes blinking red.



8. Switches. The titles are abbreviated due to the size of the button. For detailed information, please go to “Controls” page.

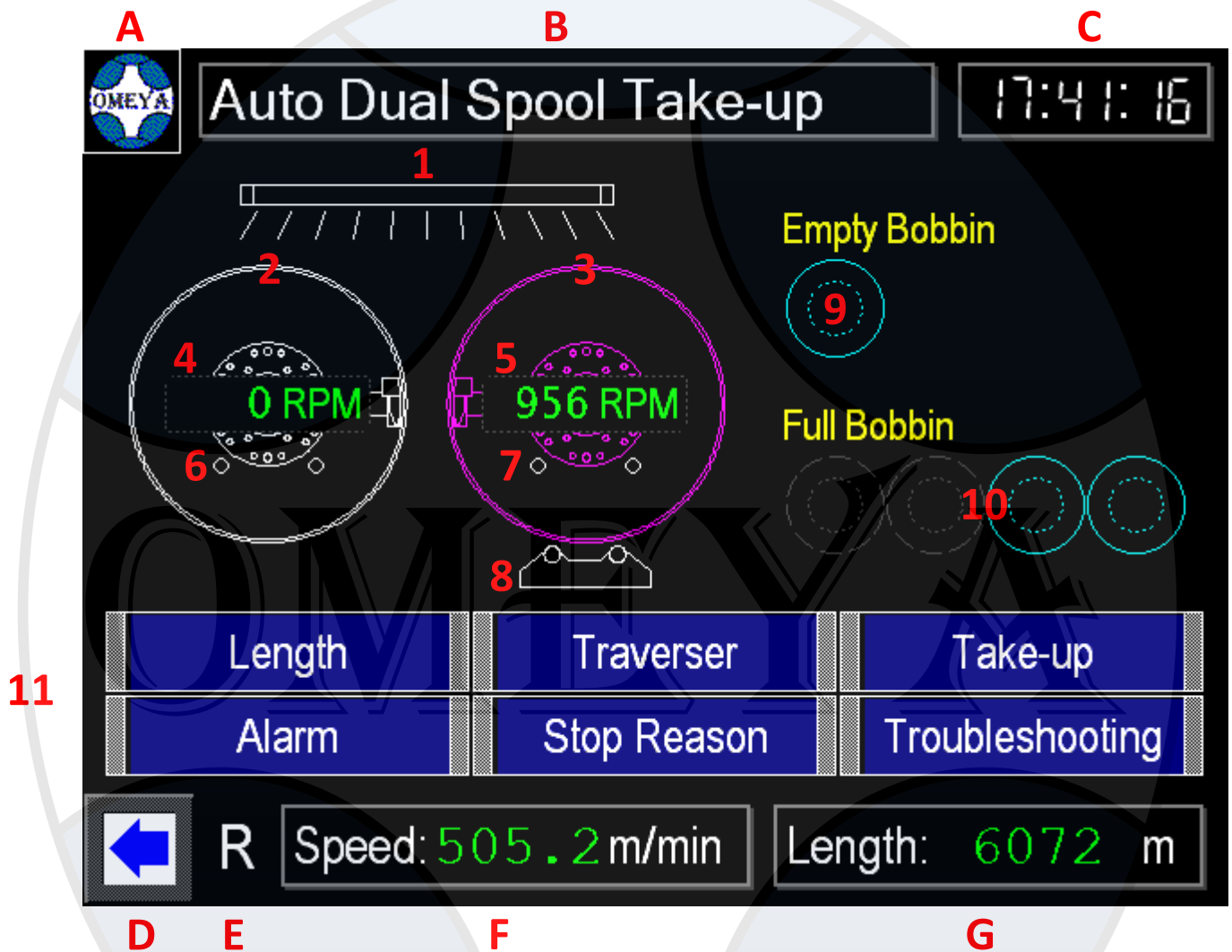
9. Buttons to all pages.

3. Speed Settings

The components in speed settings page are listed as follow:

1. Sets main speed and shows information. Main speed will only take effect in linking mode.
2. Sets extruder speed and shows information.

2. Main Page



All pages have common components labeled from A to G:

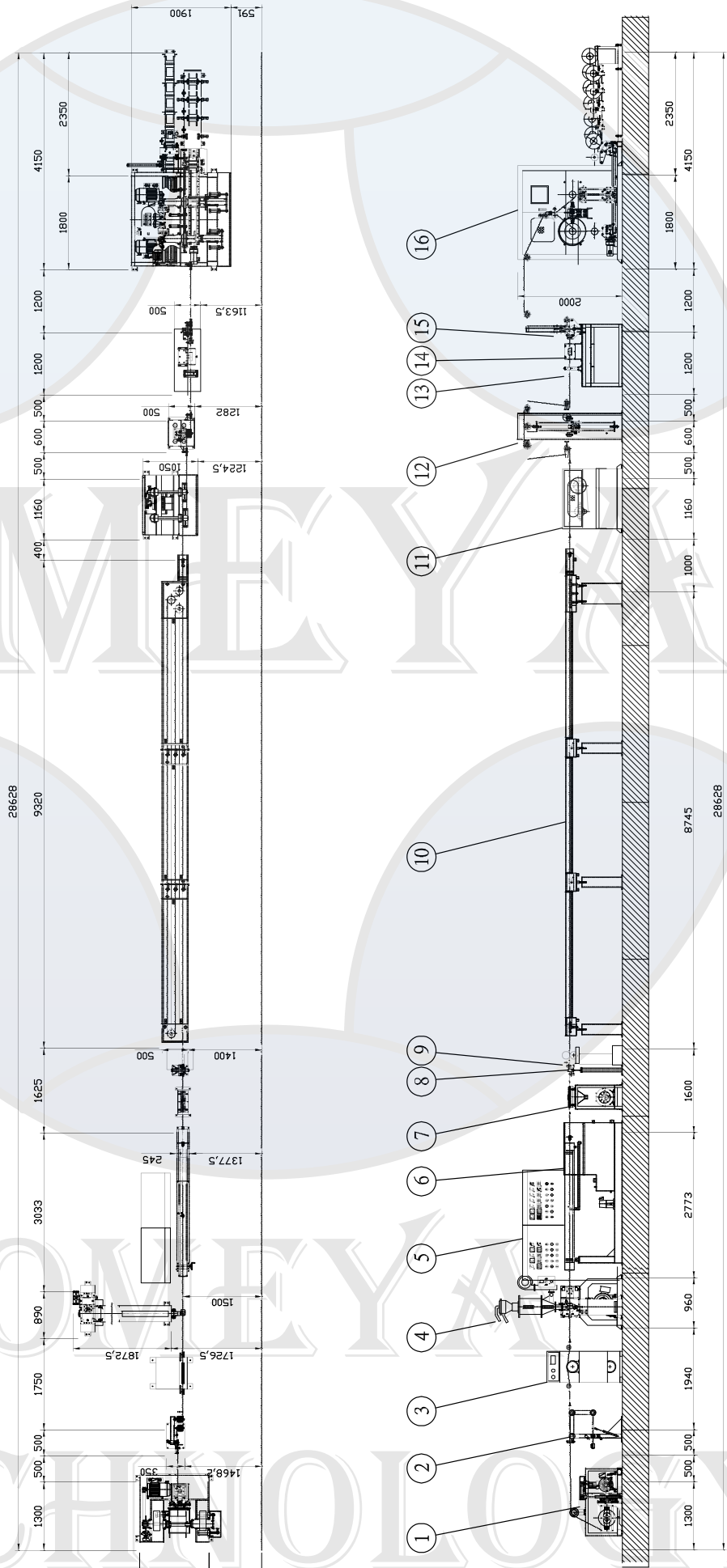
- A. Logo of OMEYA Technology. This logo button leads to title screen.
- B. Title of current page.
- C. Time. This is neither synchronized with the time of the main control panel HMI nor responsible for preheating.
- D. Back to previous page.
- E. L(left) or R(right) take-up in service. Shows blank if no take-up is running.
- F. Current production speed of the take-up in service. If speed is lower than 40.0 m/min, changeover cannot be performed since it will fail. And the number will be shown in blinking red. (See Figure below)
- G. Total length of the take-up in service. If length reaches forewarning length (See “Length Settings” page, component 1), the number will be shown in blinking yellow. (See figure below)




φ50 mm Extrusion Line Layout

1. φ500 mm Dynamic Pay-off
2. φ110 mm Cantilever Type Dancer
3. Copper Wire Preheater
4. φ50 mm Extruder
5. Electrical Enclosure
6. U Type Warm Water Trough
7. Dryer
8. Laser Diameter Gauge

9. Printing Machine
10. 7M W Type Cooling Water Trough
11. φ350 mm Dual Spool Capstan
12. φ160 mm 2M Dancer (Vertical Accumulator)
13. Surface Variation Detector
14. Spark Tester
15. Meter Counter
16. φ300 mm Automatic Dual Spool Take-up Machine



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