



# “Reinforcement construction and Reinforcement joint work”

## The important points for Safety and health

### Factory works

#### (1) There are many dangers in a factory (processing plants)!

- Many accidents also occur during processing operations.
- Remind yourself that it is a severe injury due to a machine operation!
- Please defend yourself, so as not to have an accident without neglecting the start-up inspection.



Check the wire rope securely.

#### Inspection of sling wires

\* A wire may break! Check the wire condition and a hanging angle!



1. 10% or more of the wires are broken in one twisting
2. Wire with a diameter reduced by more than 7%
3. Kinked wire
4. Those with significant shape loss or corrosion
5. Wire with a damaged eye
6. Wire deformed or cracked by shackles or clips
7. Chains which length has increased by more than 5% in the original length

**(2) To maintain cleanliness and tidiness increases work efficiency and reduces accidents!**

**Let's arrange the place to work efficiently without injury!**

## Activity of Sorting, Tidy, Cleaning, and Cleanliness

### Sorting

Separate what are necessary and unnecessary, and remove the unnecessary and no-urgent matters.

### Tidy

Keep what you need in a designated place and ready to use.

### Cleanliness

Continue sorting, tidiness, cleaning, and maintain cleanliness.

### Cleaning

Clean and free from dirt and garbage, and find out problems.

### (3) Case 1: Accident in a machining work



#### Occurrence situation

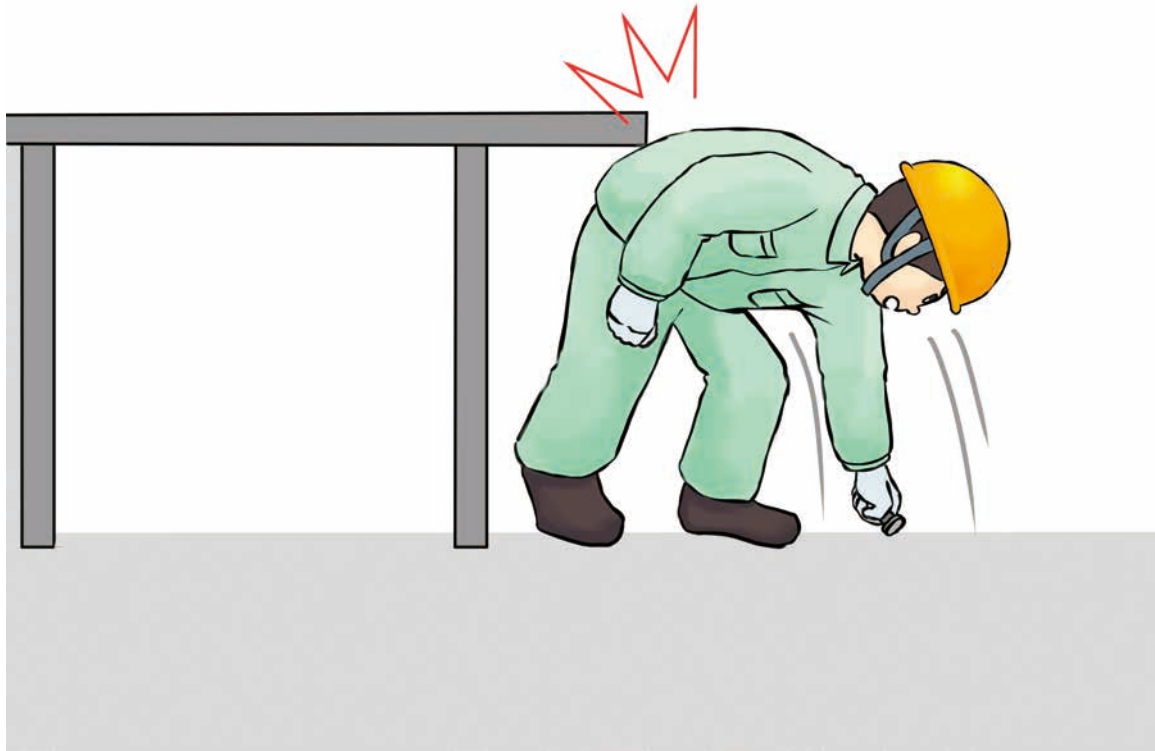
While shouldering small-diameter reinforcing bars, the victim stepped on reinforcing bars lying on a floor, then the bars rolled and he fell holding the bars on his shoulder.

Reinforcing bars were not tied by a binding wire, and easy to roll because of raw materials (straight bars).

#### Matters to follow

1. When placing raw materials (straight bars) on a floor, be sure to bind them to prevent from rolling.
2. Do not place any materials on a passage.

## (4) Case 2: Accident in a processing work



### Occurrence situation

When the victim picked up a cut piece that fell down on a floor, he picked it up, and hit his back to a processing table. He crouched in a narrow place and took an unreasonable posture to pick up an object. He didn't confirm the processing table, and stood up in a hurry.

### Matters to follow

1. Do not reach into a narrow space.
2. Use a magnet or a magic hand to pick it up, and do not take an unreasonable posture.
3. Always check the position of materials and a worktable to avoid contact with the body.
4. Work with calmness.

## (5) Case 3: Accident in a processing work



### Occurrence situation

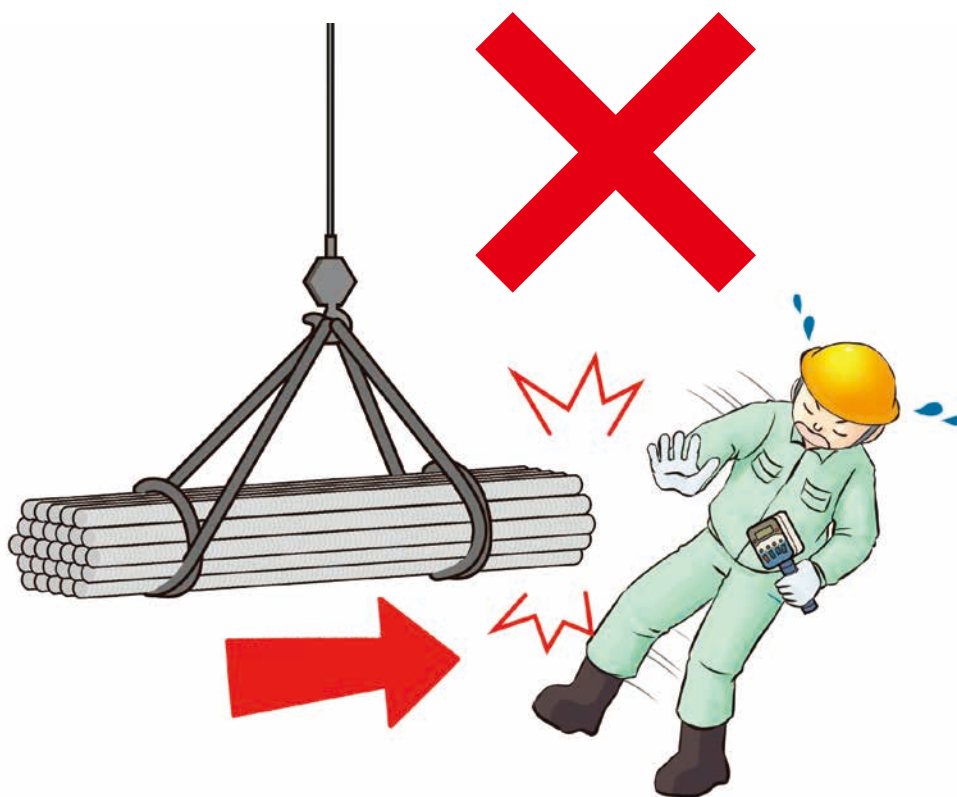
While bending using a manual re-bar bending machine, leather gloves were caught in a roller and the victim's hand was injured. He was accustomed to his work, and was overconfident, and lacked the attention to his hands. Gloves were loose. He held the re-bar close to a roller.

### Matters to follow

1. Keep your attention and do not become the state of inertia when you work repeatedly.
2. Work wearing proper protective equipment.
3. Assuming you will get caught, look at the part that you are going to hold.



## (6) Case 4: Accident in a processing work



### Occurrence situation

While holding a bundle of re-bars with a crane, the victim was holding the materials with one hand and operating a remote control with one hand, and was mistakenly pinched by the materials. A remote control was operated with one hand while holding the materials with another hand. He pressed an operation button without checking buttons because he was preoccupied with the materials.

### Matters to follow

1. Operate a remote control with both hands as much as possible, and press the buttons confirming the position.
2. Never do anything while doing others. Concentrate on a remote-control operation.
3. Long objects must be moved by two people.

## (7) Case 5: Accident in a processing work



### Occurrence situation

After bending large-diameter rebars with two people, the victim tried to lower the bent material and cut his hand with a sharp end edge in the re-bar.

The work was simple and the machining quantity was large, that made him in the state of inertia. He forgot the sharpness of the re-bar, and his attention was diminished. In midsummer, the temperature inside the factory was high and he was tucking up his sleeves.

### Matters to follow

1. Raise your attention and avoid inertia when you are doing something simple and familiar with.
2. Think that a re-bar cutting edge is sharp like a blade.
3. Don't tuck up sleeves even on hot summer days.
4. It is recommended to wear a covering for the back of a hand and a wrist which is very effective.

## (8) To prevent injuries at a factory (processing plant) (Summary)

- Thoroughly check sling wires and the hanging angle!
- An activity of Sorting, Tidy, Cleaning, Cleanliness is necessary evens in a factory! Enforce this activity!
- Secure a work passage and do not walk on materials!
- Do not reach a hand into tight places!
- There are many cases where gloves (cotton work gloves) are caught in a machine, so be careful!
- During an operation of a crane, concentrate on the operation and operate at a position where there are no problems even if the load swings!
- The cutting edge of a re-bar is very sharp! Work with the consciousness of handling blades!

**While working in a site, people often forget that they are working in a dangerous place. People easily get used to their environment. Always keep in mind that you are working cheek by jowl with the danger.**