

Balancer Applications

All for the "Working People".

HumanAssist Applications

PAWSeries FAWSeries







Selectable for various situations



functional PAU Series
Powerful Arm SAU Series
Support Arm Support Arm **PowerArm** Payload Payload **PAW Series SAW Series** up to **115**kg up to 130kg For heavier workpiece transfer tasks High rigidity and compactness for Including weight of complex tasks such as inverting Catalog No. LN-007AA Catalog No. CC-1418AA Application ► P. 1 Application ► P. 17

Low Payload



CAW Series

Easy one-handed operation for repetitive tool work

Catalog No. CC-1613AA



Application ► P. 12



Multi-

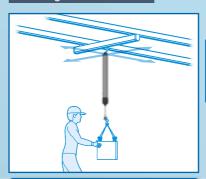
Simple

Balance Cylinder

BBS Series

Simple and highly safe, can be installed on any customer equipment

Catalog No. LN-011AA







Payload

up to 190_{kg}

if a larger payload is required

* Japan only release

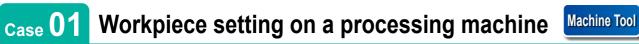
High

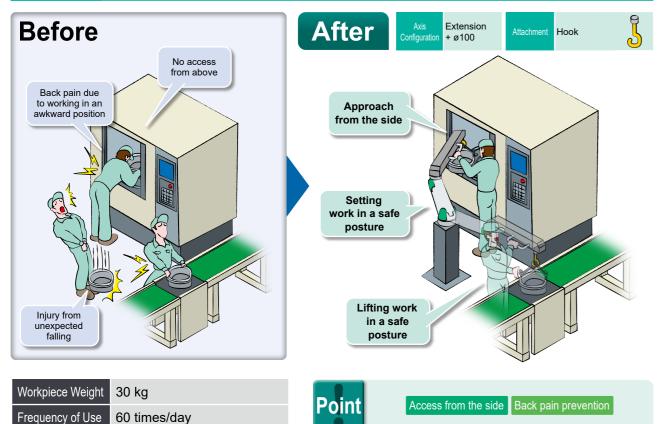
Payload

Application ► P. 18

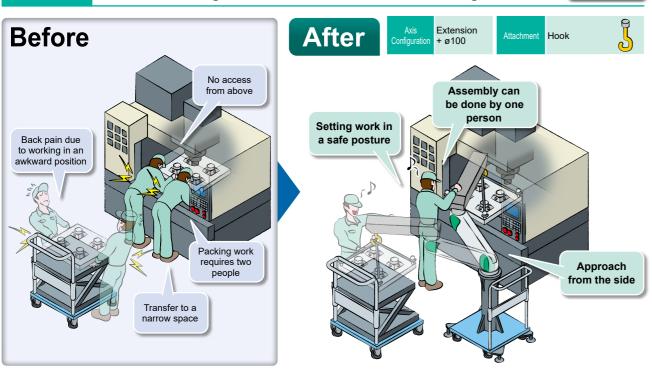










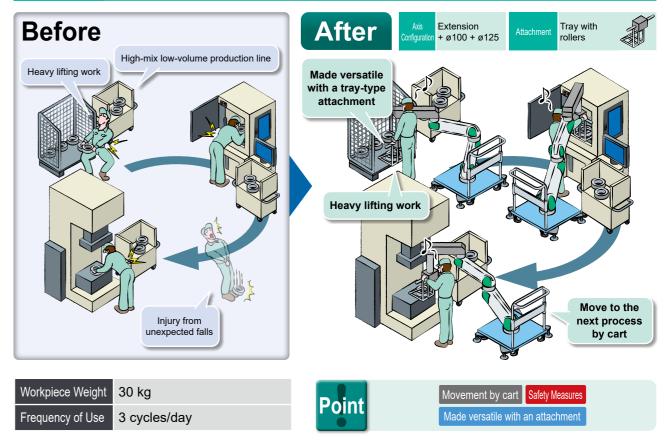


Workpiece Weight 30 kg
Frequency of Use 3 times/day



Machine Tool

Case 03 Work assistance for multiple processes Machine Tool



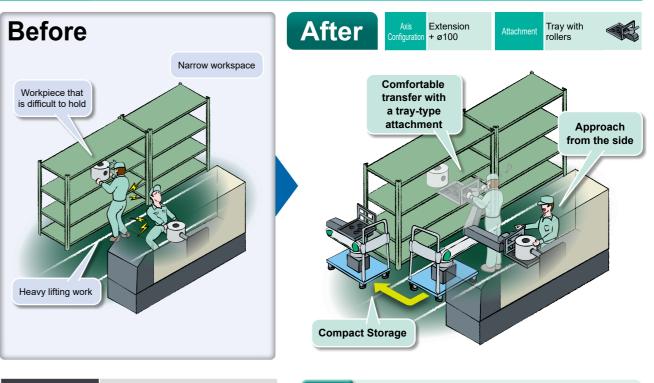
case 04 Workpiece setting in a narrow workspace

20 kg

20 times/day

Workpiece Weight

Frequency of Use





Workpiece Weight

Frequency of Use

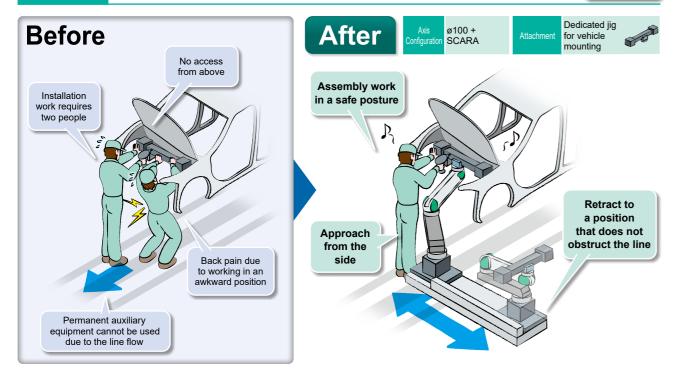
300 times/day





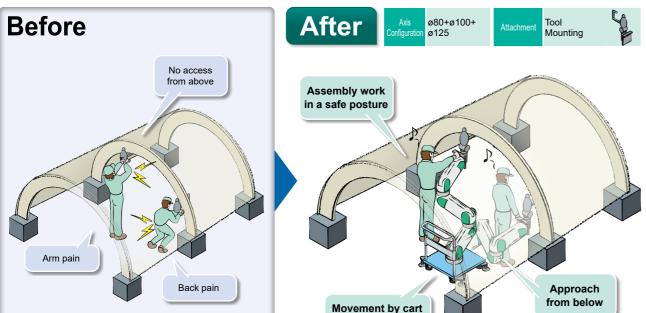


Compact



Point

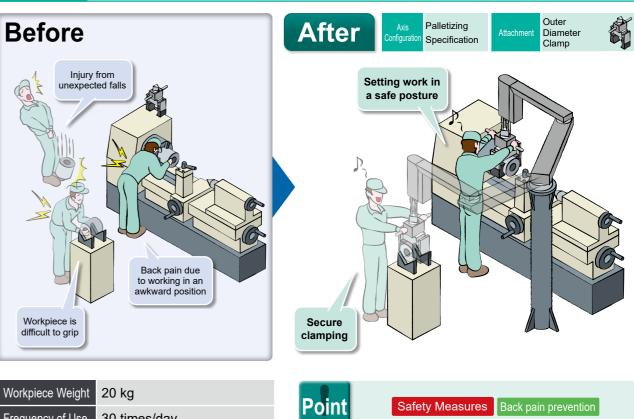




Workpiece Weight 8 hours/day Frequency of Use



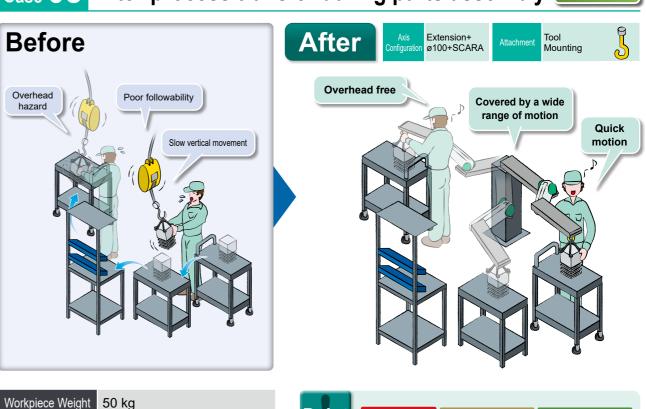
Setting of round bar workpiece on a lathe Machine Tool



Inter-process transfer during parts assembly

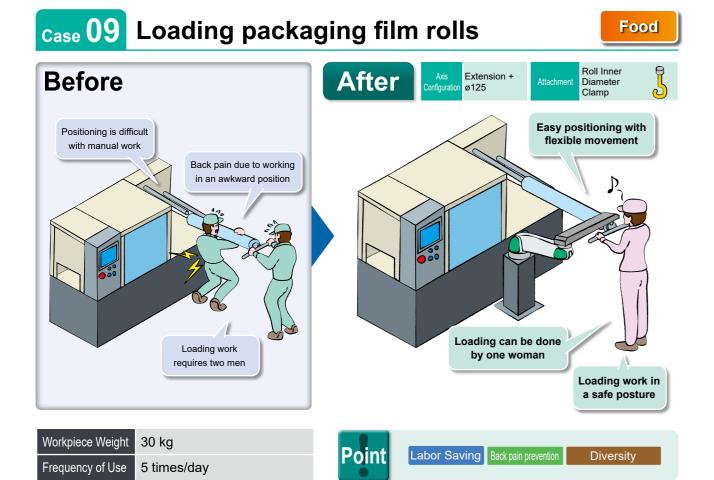
Frequency of Use

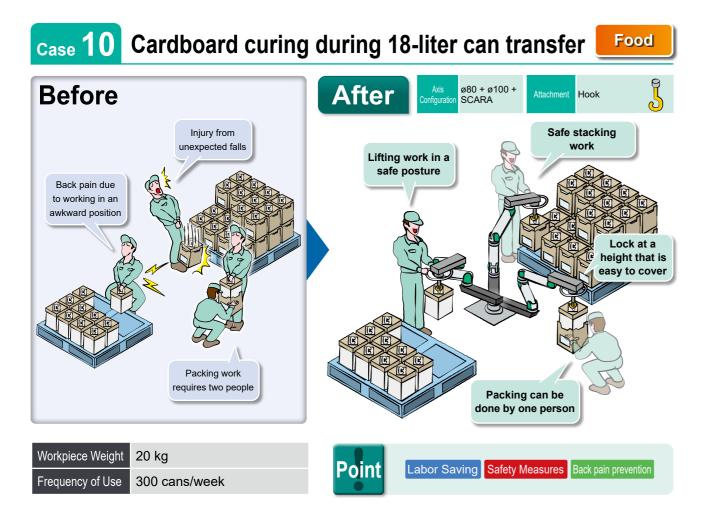
30 times/day

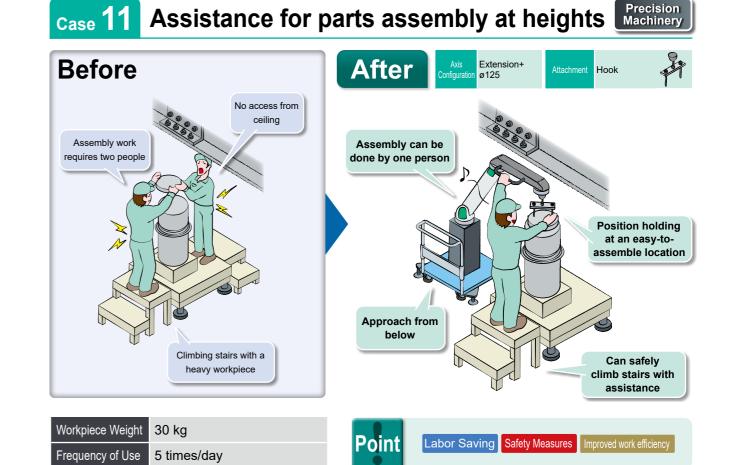


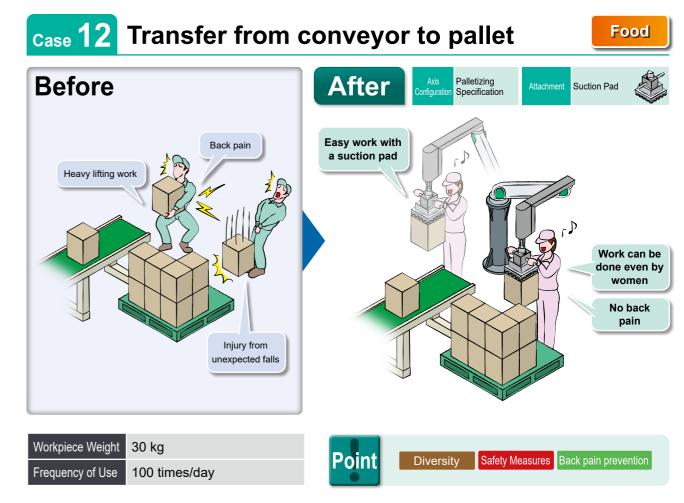














Workpiece Weight

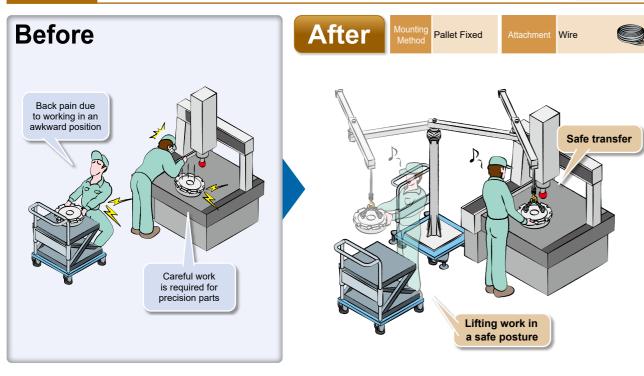
Frequency of Use

50 times/day

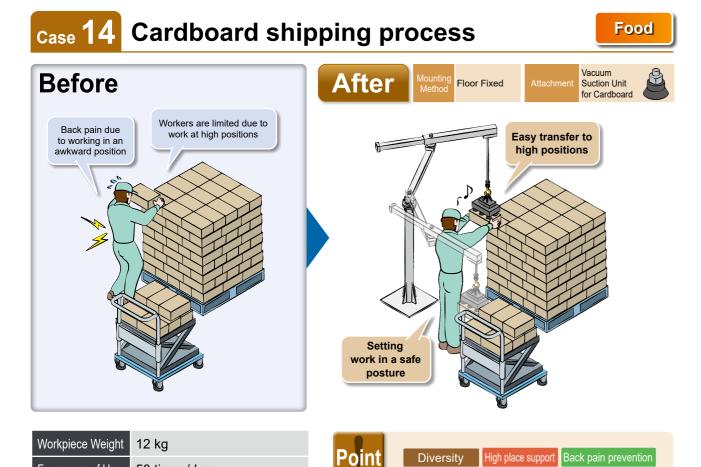


Chemical









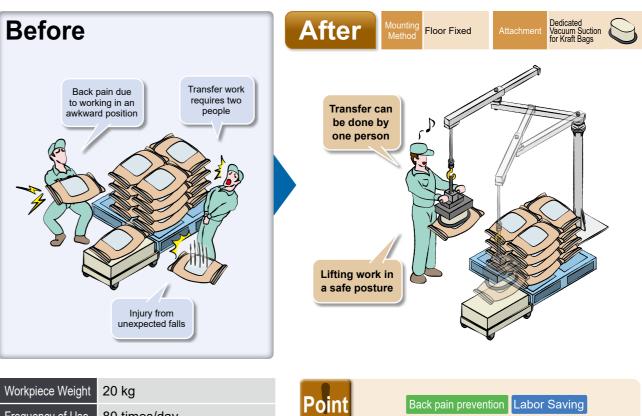


80 times/day

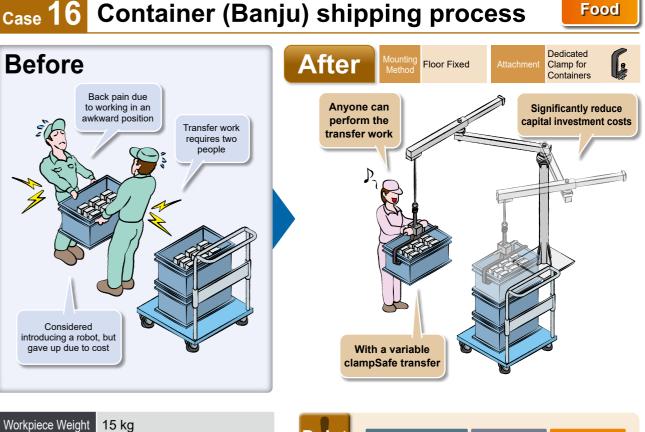
Frequency of Use

Frequency of Use

30 times/day





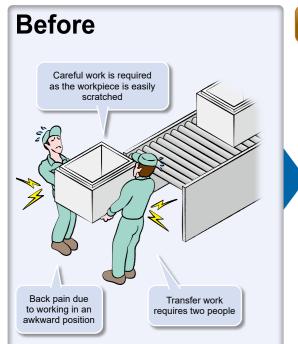


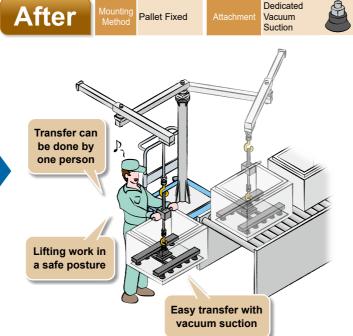


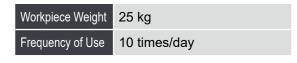














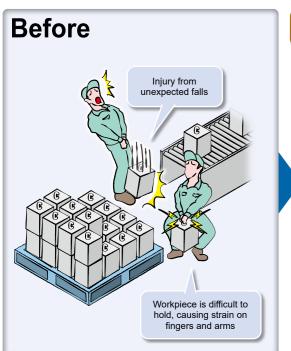
Safety Measures Subsidy Target

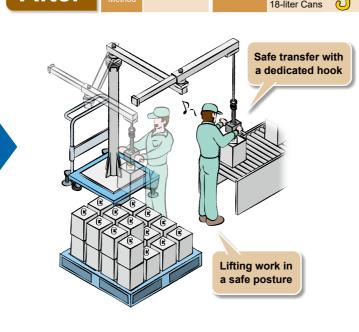
case 18 18-liter can shipping process

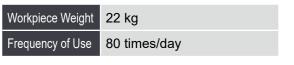


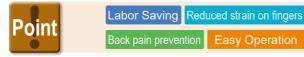
Dedicated

Hook for



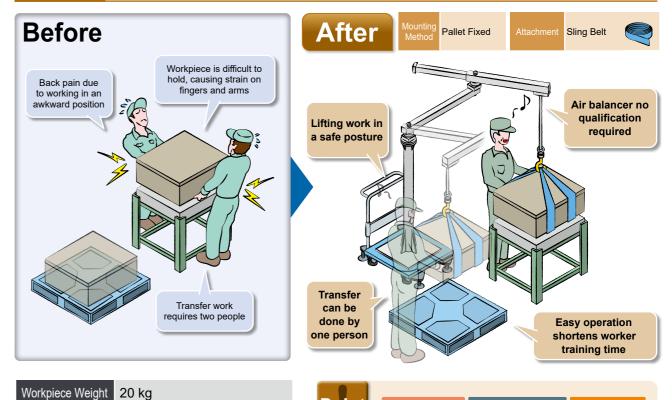






Case 19 Control box parts transfer



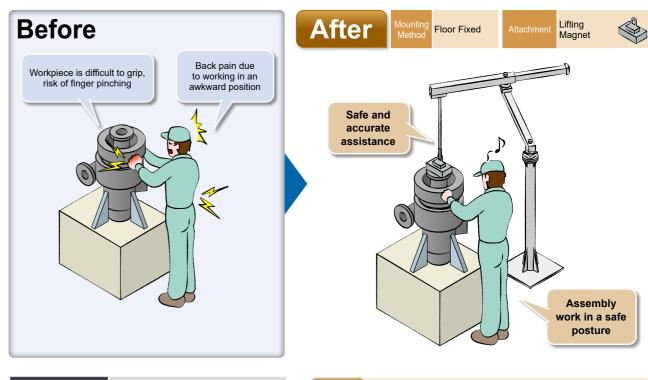


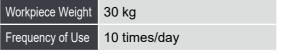


Frequency of Use

5 times/day









Pinch prevention Back pain prevention









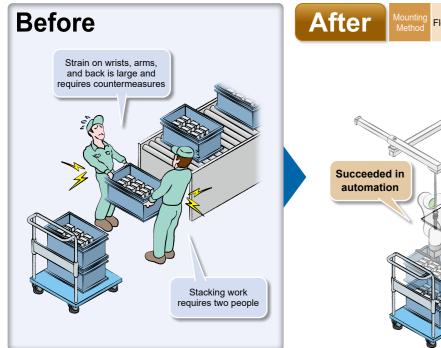
Collaborative robot

requires no fence, saving space

Continuous operation

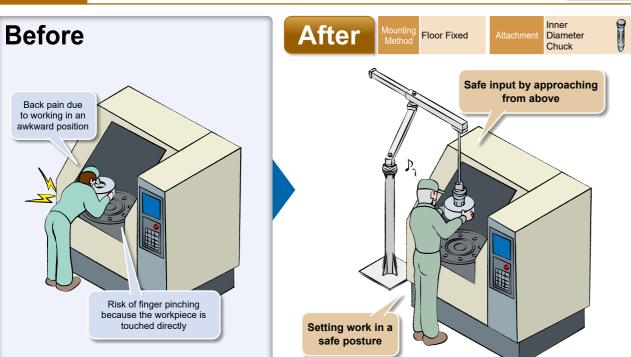
improves work efficiency

Machine Tool





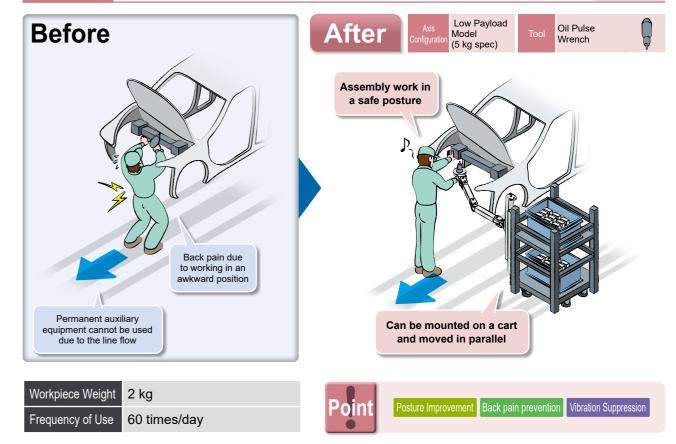




Workpiece Weight 15 kg
Frequency of Use 20 times/day



case 23 Screw tightening on an automobile assembly line Automotive



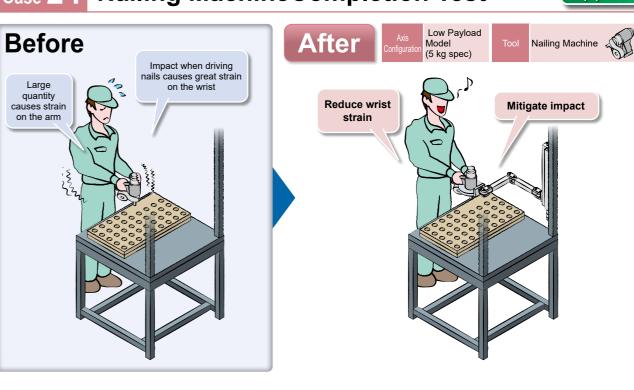


2 kg

50 times/day

Workpiece Weight

Frequency of Use



oint

Wrist Protection Vibration Suppression

12



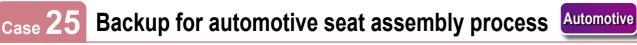
Workpiece Weight

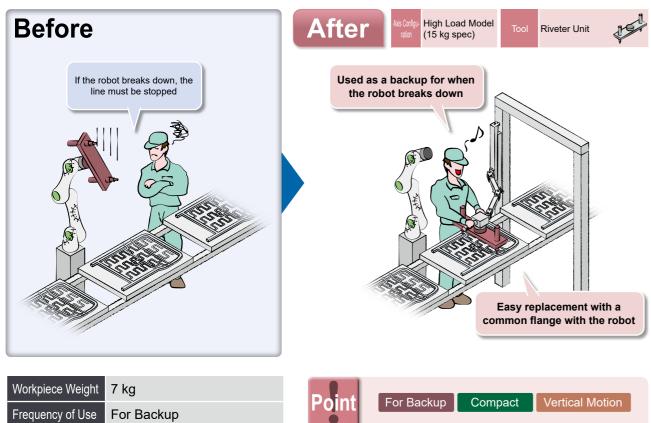
Frequency of Use

50 times/day

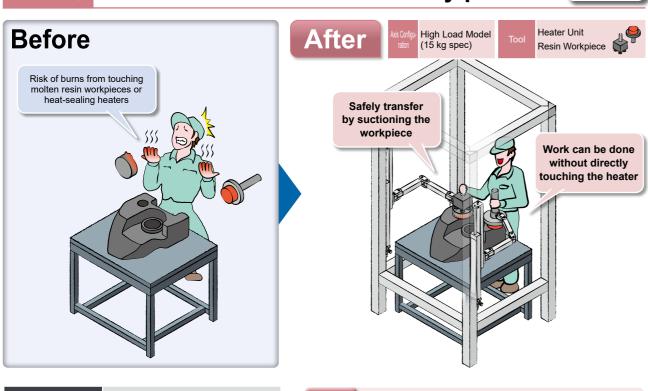


Safety Measures





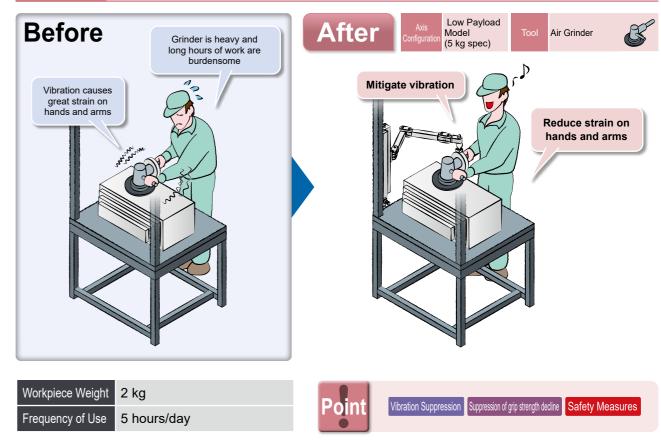




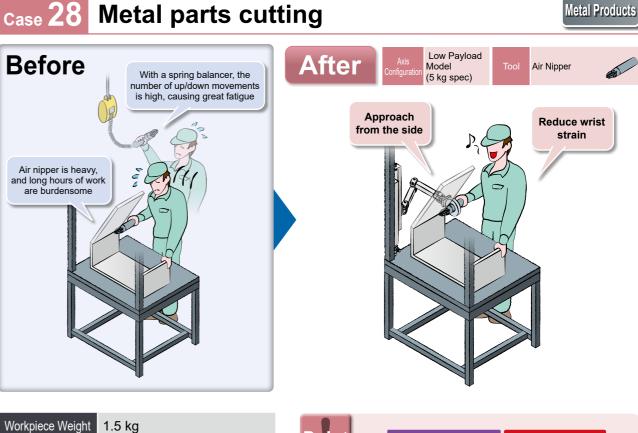
Burn prevention

Compact

Grinding and polishing of metal parts







13 14

Frequency of Use

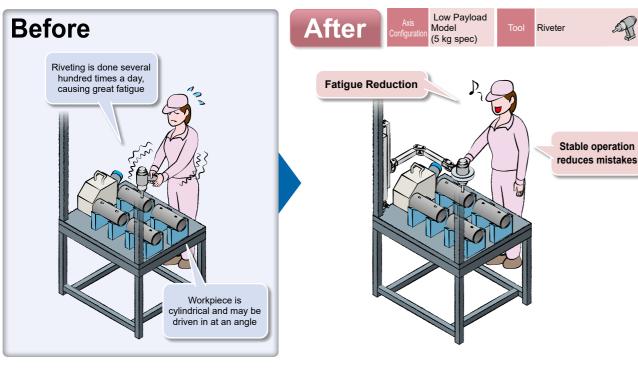
3 hours/day







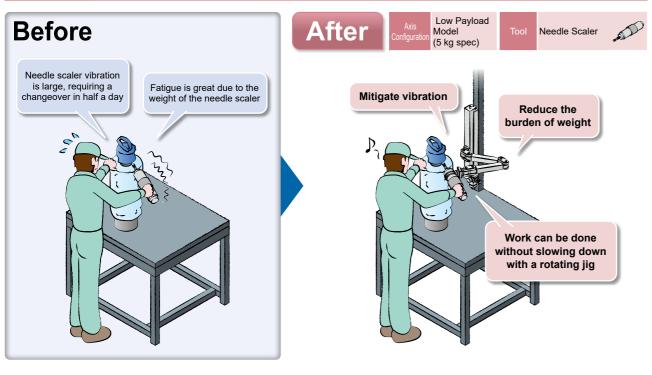






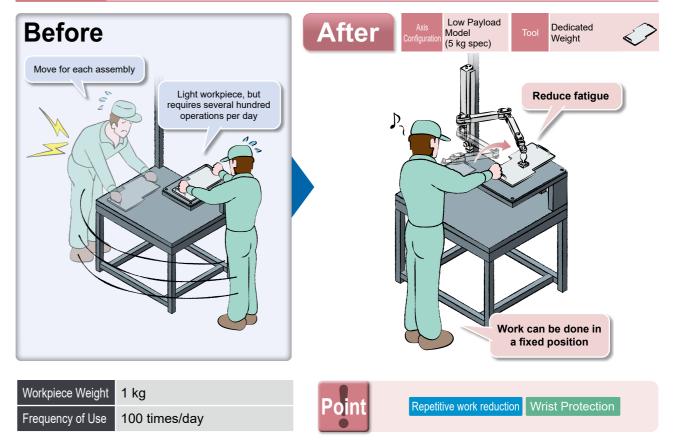
case 30 Submersible pump cleaning work



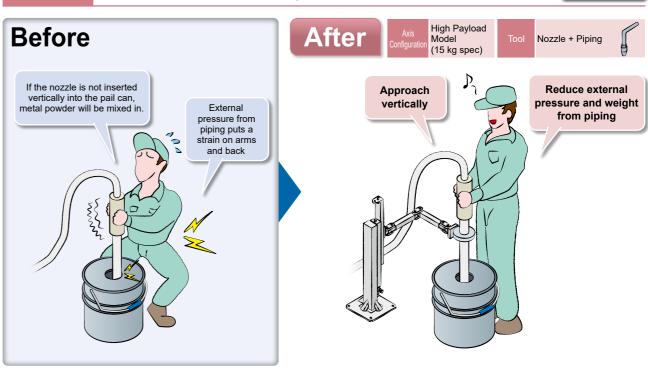








case 32 Fixed-volume injection into a pail can Pharmaceutical



12 kg

8 hours/day

Workpiece Weight

Frequency of Use

Workpiece Weight

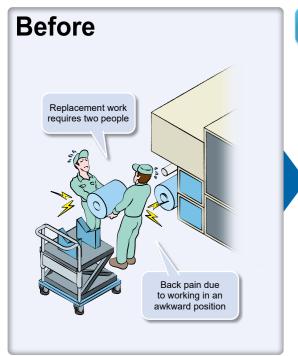
Frequency of Use

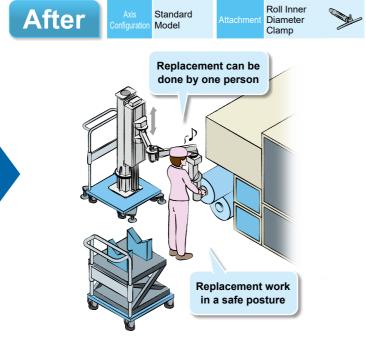
8 hours/day

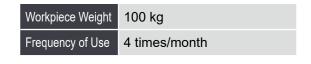










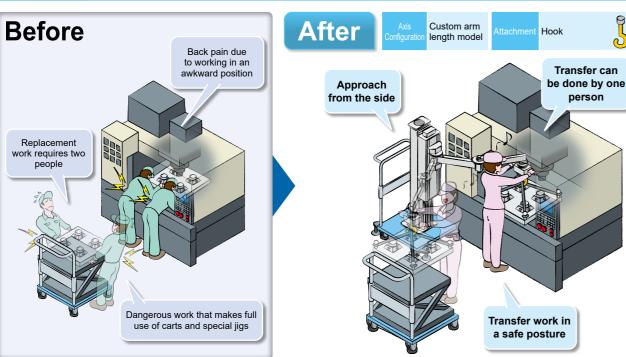






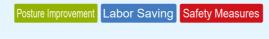






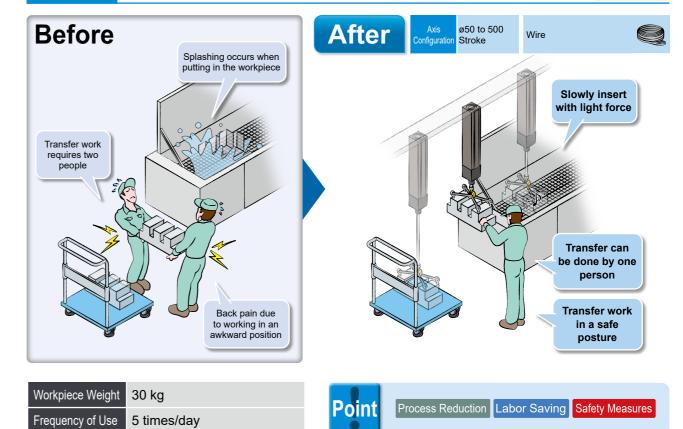
Workpiece Weight 100 kg
Frequency of Use 4 times/month





case 35 Loading parts into a cleaning tank





Case 36 Automotive parts transfer

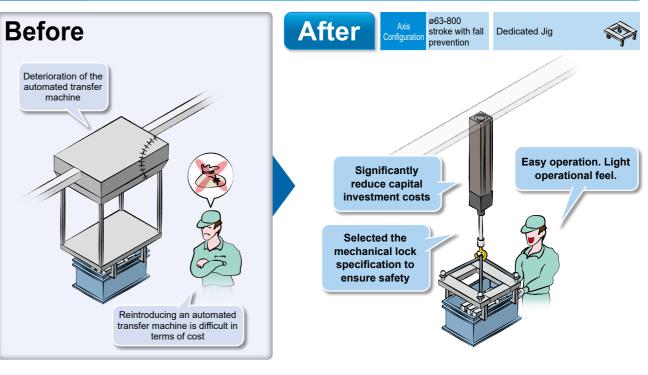
20 kg

20 times/day

Workpiece Weight

Frequency of Use





Human Assist Applications

Related Products

Air Booster ABP Series

- High-pressure air up to twice the primary pressure (equivalent) is possible without electricity
- Compact design, flexible installation
- Total cost reduction is possible for the entire factory





Portable Air Supply Unit Limited to Japan

- Easy to carry
- It is shaped like a carrying case, so anyone can easily carry it
- Supplies clean air
- Compressed air is cooled by an aftercooler. Supplies clean air with drain and foreign matter removed

Improves heat dissipation around the pump and suppresses temperature rise during long-term



Precision Regulator RP1000/RP2000 Series

[RP1000 Series]

- Precise pressure control is possible in the pressure range of 0.003 to 0.4 MPa
- Compact size of □42 mm
- Energy-saving type with low air consumption
- Stable flow characteristics with small pressure drop

[RP2000 Series]

- Compact size of □50 mm but with a large exhaust flow rate type
- High-precision pressure control is possible regardless of the flow rate from 0.03 to 0.85 MPa
- Stable flow characteristics with small pressure drop
- Low-friction packing is used for moving parts to achieve a long service life

Suction Pad Series

- A wide variety of variations are available to support all kinds of workpieces and diverse transfer environments
- A wide variety of materials, shapes, and pad diameters are available to match the workpiece size, weight, and characteristics.







For details, refer to "Model No." on the CKD Components website (https://www.ckd.co.jp/kiki/en/).

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WORLD-NETWORK



CKD Corporation

Website https://www.ckd.co.jp/en/

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