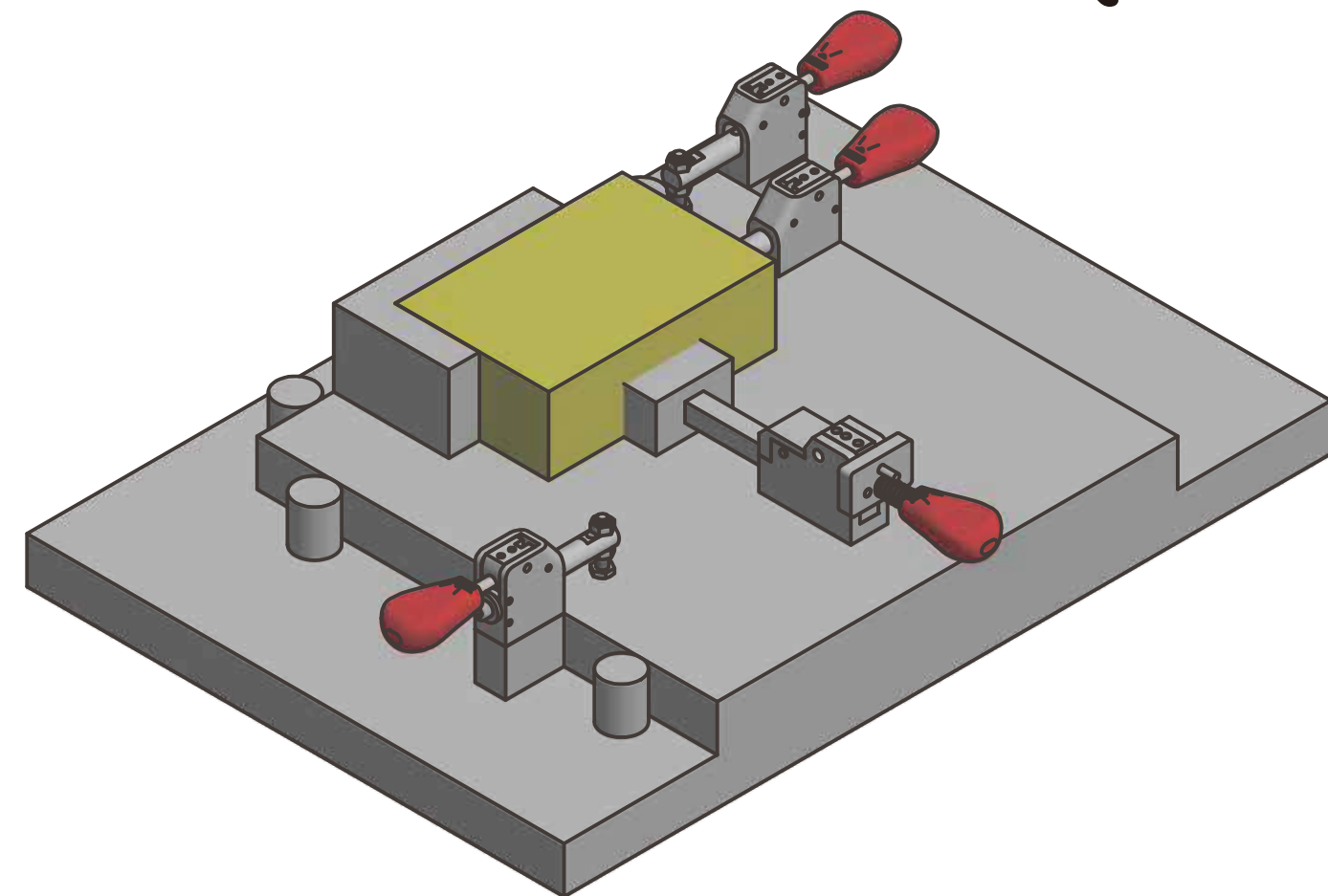


Dual Clamp



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TEL: 03-3777-1057 FAX: 03-3777-1721

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■Various Dual Clamps...

Adopting a dual mechanism(double structure) that combines a toggle mechanism and a cam mechanism, the clamp is safer, more stable, and more accurate than ever before.
It is a clamping device that has established a new Specification that is not bound by the shape and structure that has been used for nearly half a century.

Dual Clamp instruction manual

Please read before use to ensure Correct and safe use.

<Confirmation before use>

The numbers listed in the Catalog are reference values and may differ slightly.

<Precaution for use>

- Installation method
Please fix it firmly with a bolt and install it.
- Tightening position
Please note that clamping is not Possible except during clamping.
(when tension is applied to the toggle mechanism and the cam is activated)
- Maintenance
If chips are generated, remove the chips by blowing around the rotating Part of the slide with an air gun before clamping or unclamping.
Regularly lubricate slides and friction parts.
- Inspection
Periodically Check the looseness of the bolts that secure the unit.
Periodically Check the looseness of the bolt and nuts attached to the clamp arm and mounting Plate.
- Usage environment
Please refrain from using in high temperature, low temperature, high temperature, places subject to excessive vibration, immersion in water, underwater, and Other special environments.
Doing so may cause malfunction, deformation, or the falling off of damaged parts.
- Notes
Be careful not to get your hands or fingers caught in the moving parts such as the slide, cam, etc. of the clamping device.
Do not use the clamping device beyond its capacity as it is extremely dangerous.



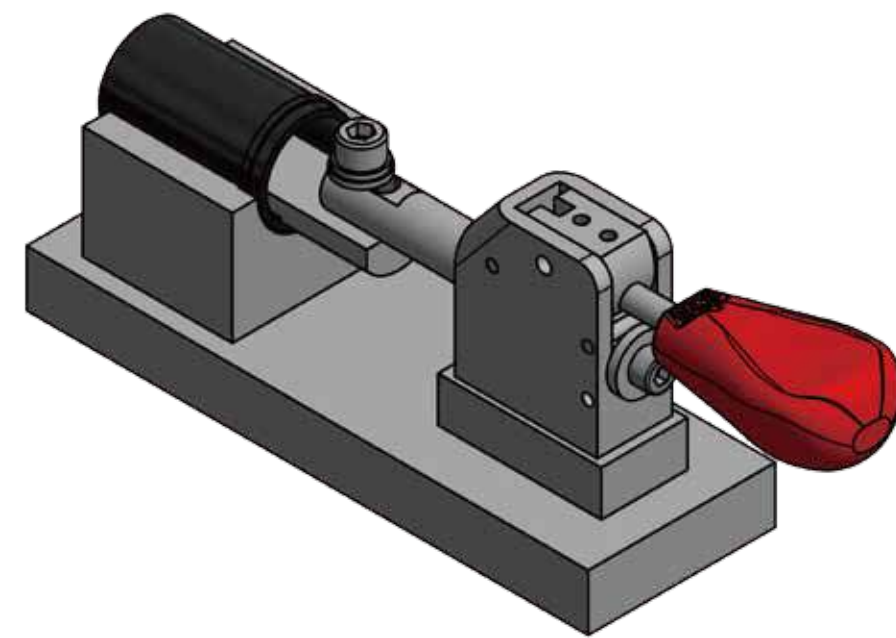
- Specifications are subject to change without notice for product improvement.
- The allowable load shown in the catalog is the maximum Value.
- Presser foot position/port adjustment Please note that the Values may decrease depending on the type of bolt used.
- Wear protective gloves for safety during installation and operation.

Dual Clamp Serise

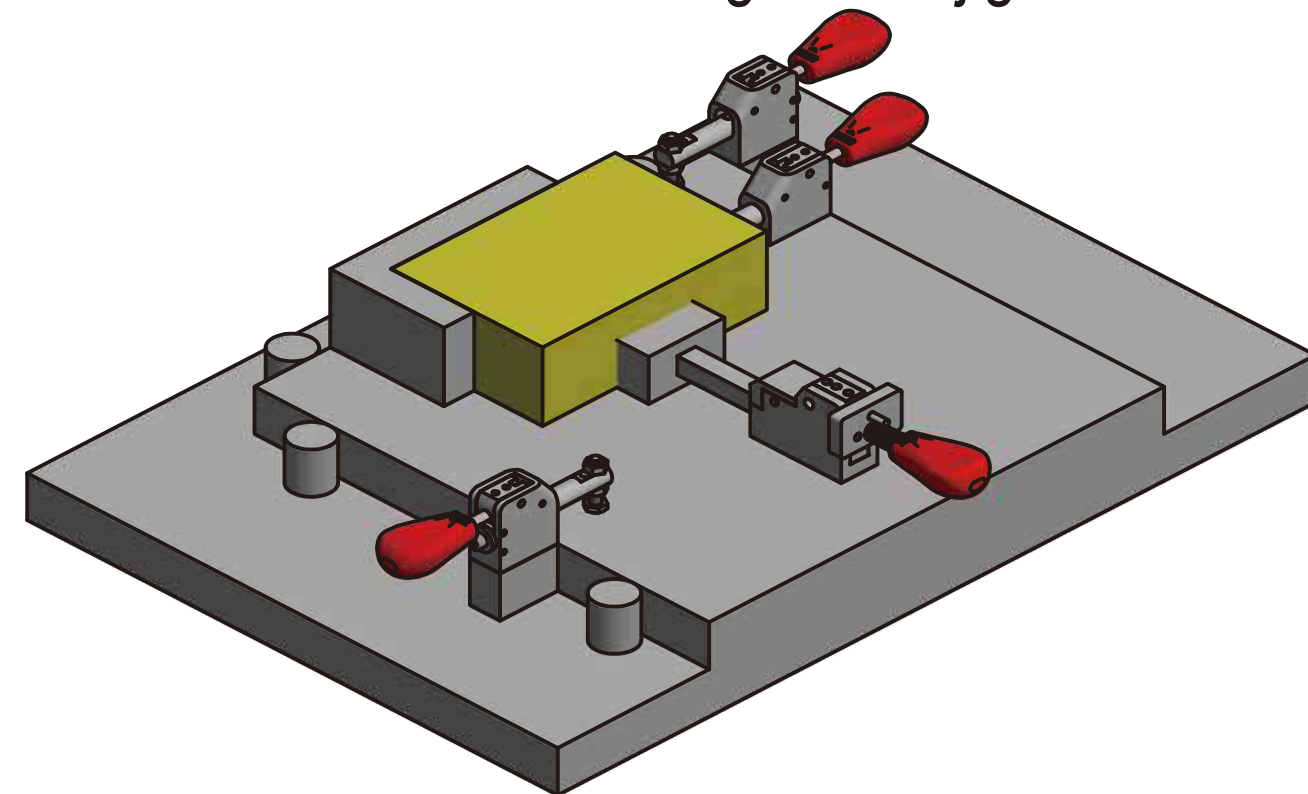
Workpieces can be fixed with one touch!!

Standardization of work fixing

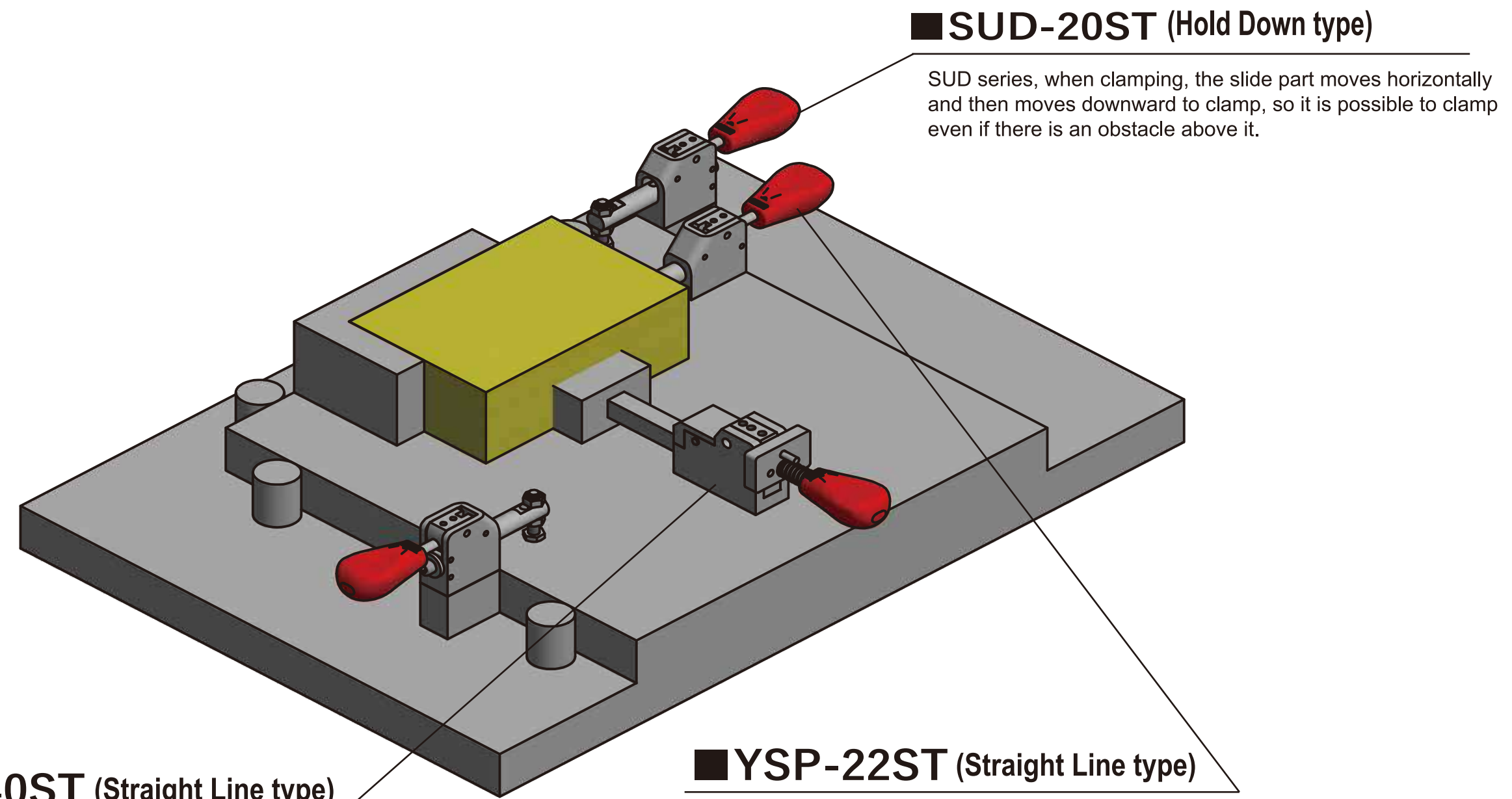
With the same force regardless of who does the work!!



Ideal for machining center jigs!!



Dual Clamp usage example



You can watch the product video by scanning the QR CODE with your smartphone or tablet.
※There is sound in this video, so please be careful with the volume.



You can watch the product video by scanning the QR CODE with your smartphone or tablet.
※There is sound in this video, so please be careful with the volume.



※About the grip

The grip has been developed based on ergonomics fits to hands and reduce physical burden.
Need to adjust the bolt length before use.
Do not use in lathe/turning and at high temperature as welding.

※YSP/SUD series also has a model with a safety lock.

Depending on the material,Cutting allowance, and processing details,
it may not be possible to hold.

※When using the YSP series...

When using with the handle attached, the handle may not be able to hold the unclamped position due to the weight of the block attached to the tip of the slide.
Also, when used horizontally, the sliding of the slide part may become significantly lighter.

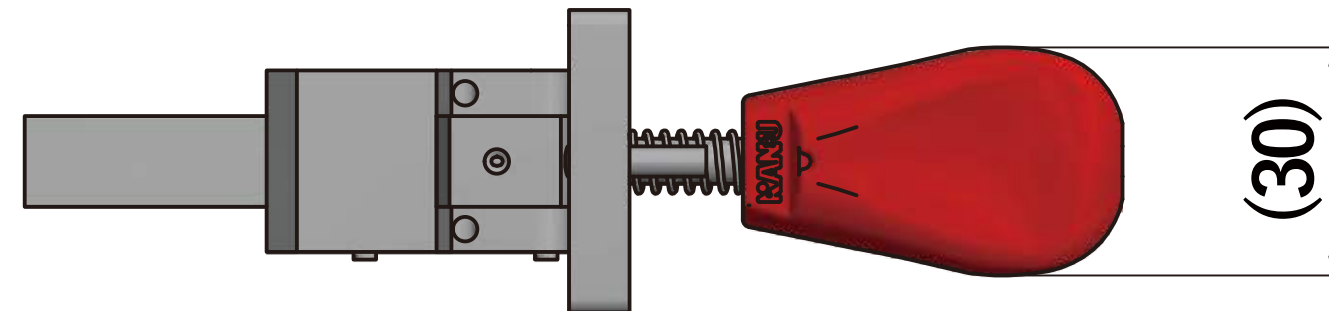
KCP-22ST

Allowable load: MAX2.5kN

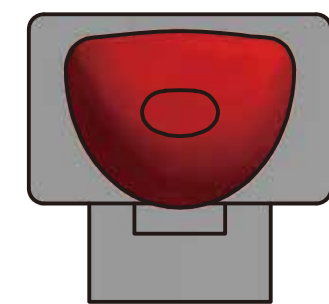
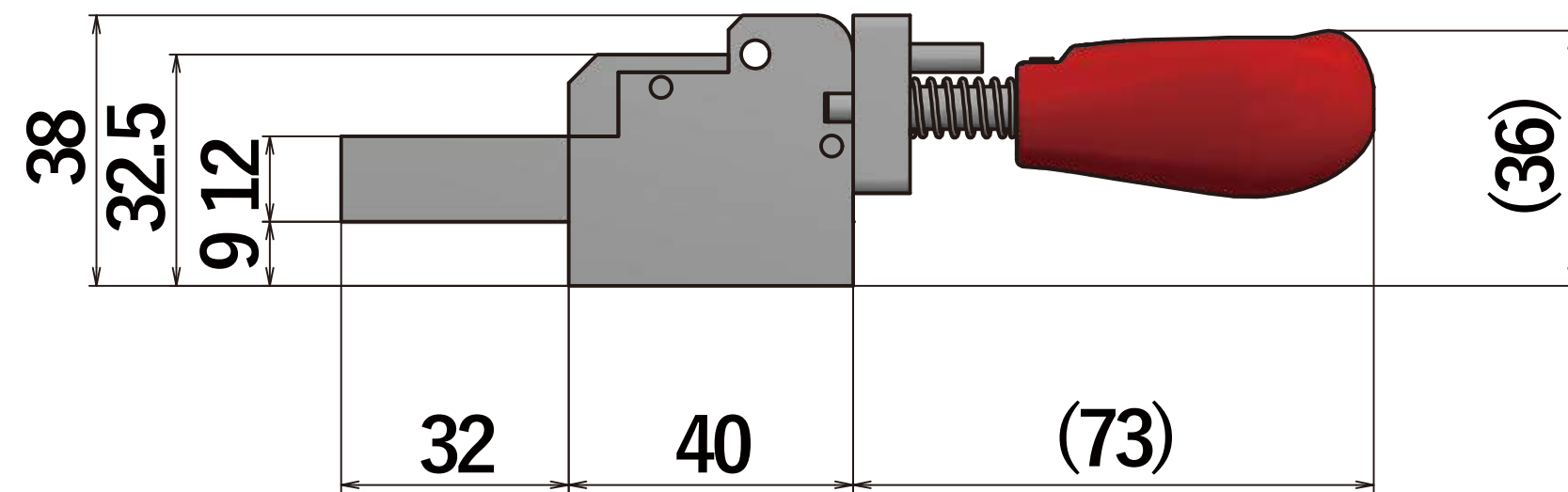
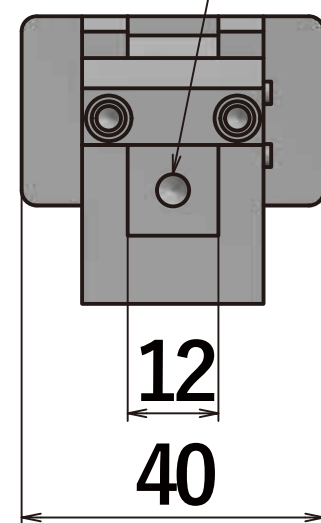
<Material>

Body/Cam/Connecting Arm/Slide Bar/Grip Shaft :Stainless steel

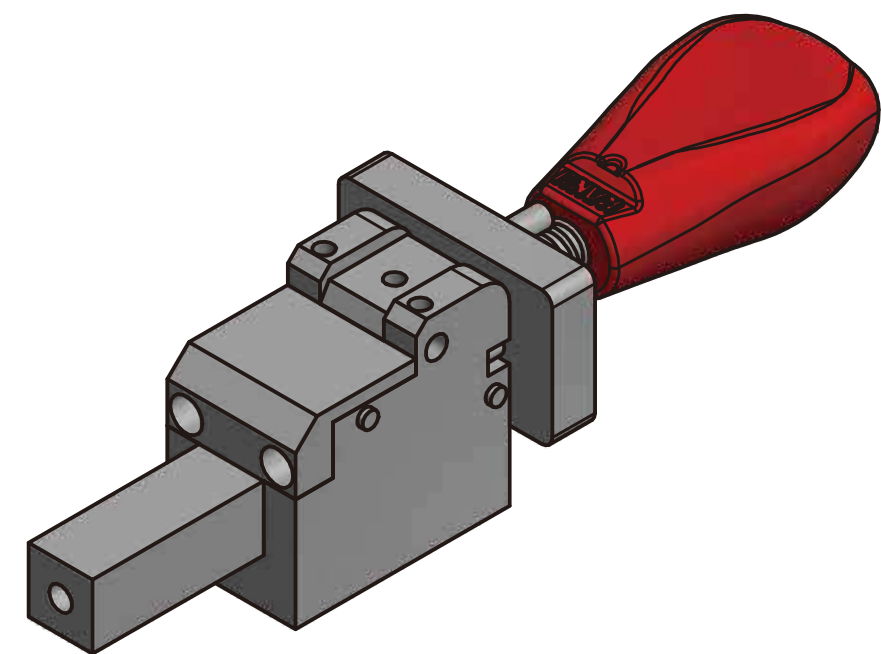
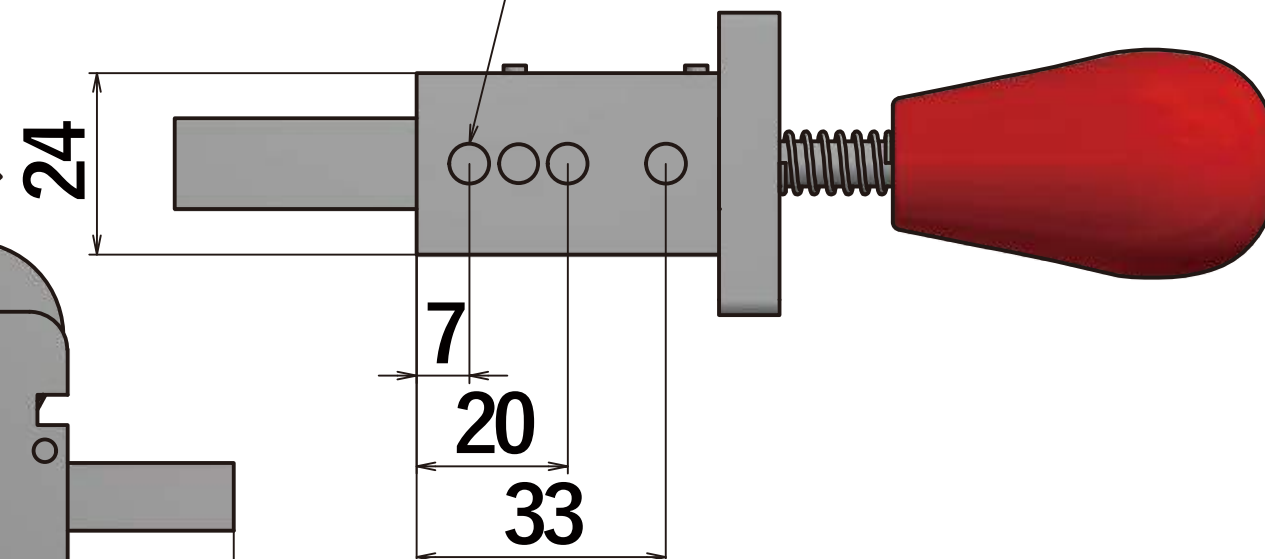
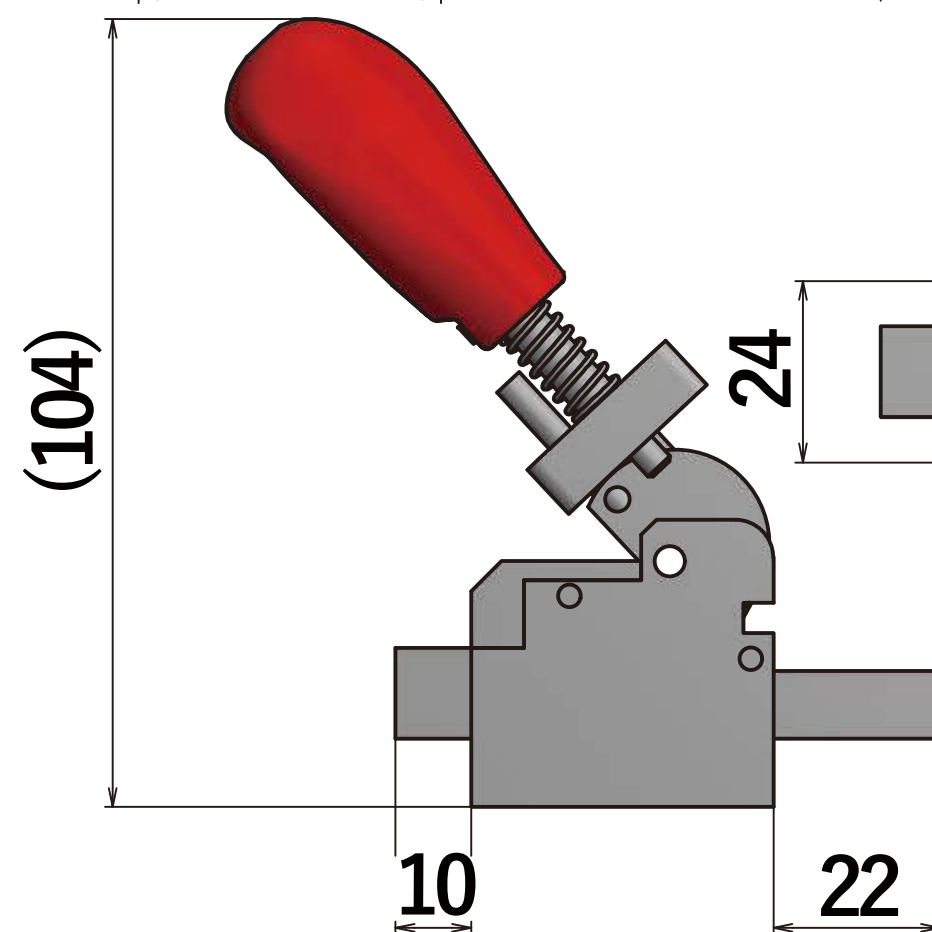
Grip :Plastic(P,P) Spring :SUS304-WPB



M 5 Tap Effective depth 15



3 - M 6 Tap Effective depth 9



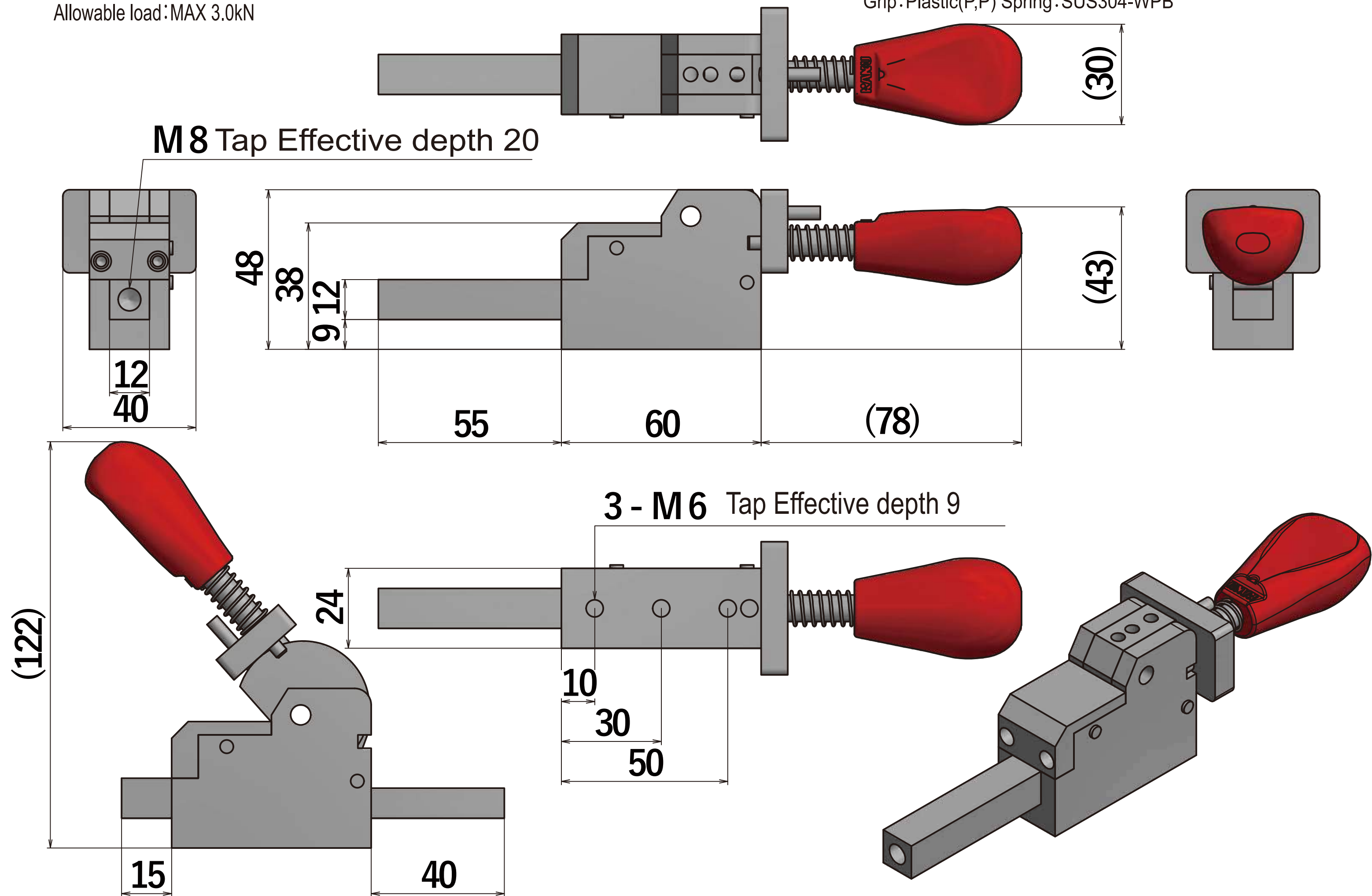
KCP-40ST

Allowable load: MAX 3.0kN

<Material>

Body/Cam/Connecting Arm/Slide Bar/Grip Shaft : Stainless steel

Grip : Plastic(P,P) Spring : SUS304-WPB



YSP-22ST

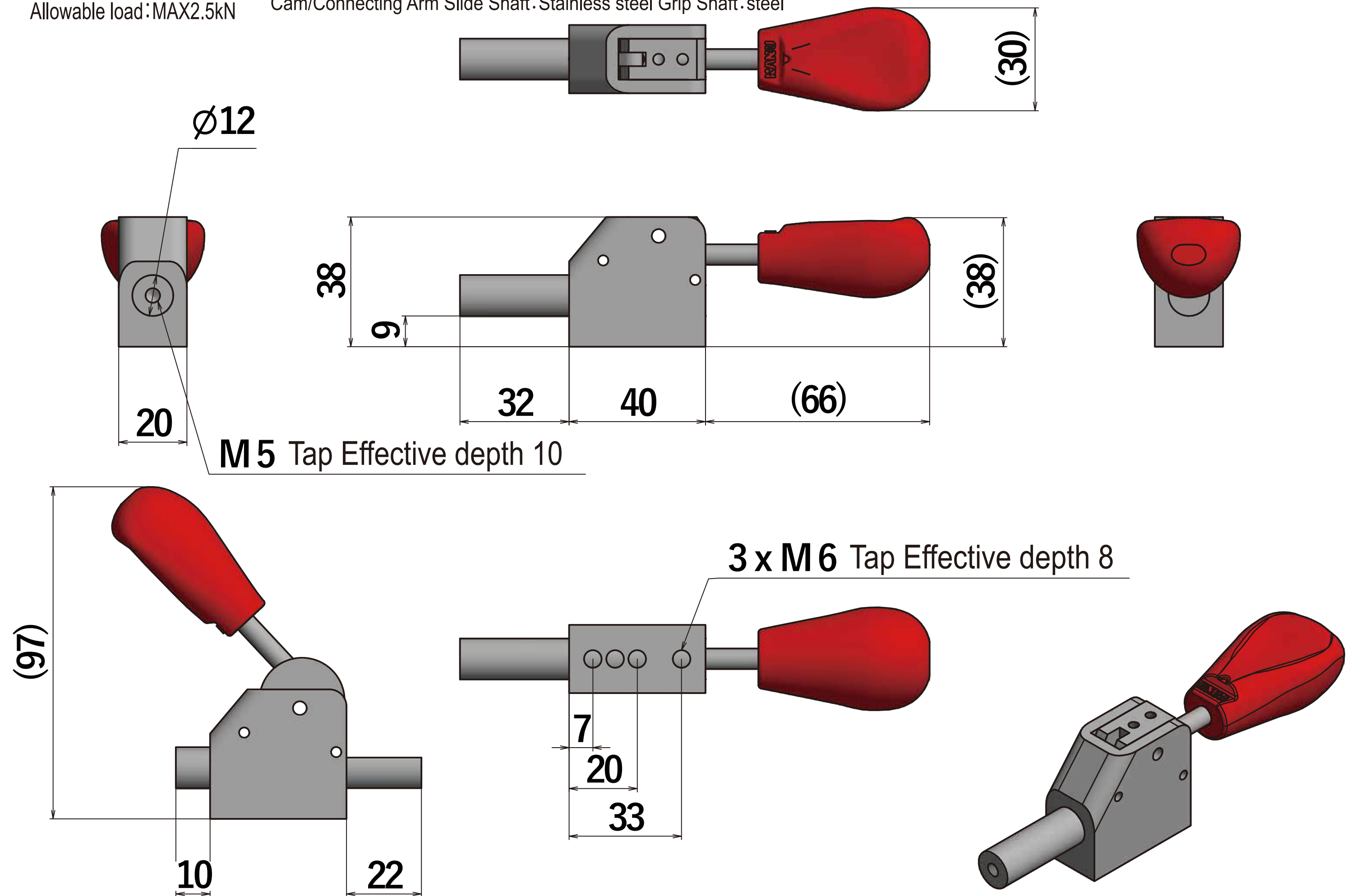
Allowable load: MAX2.5kN

<Material>

Body: Aluminum Grip: Plastic(P,P)

Cam/Connecting Arm Slide Shaft: Stainless steel Grip Shaft: steel

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)

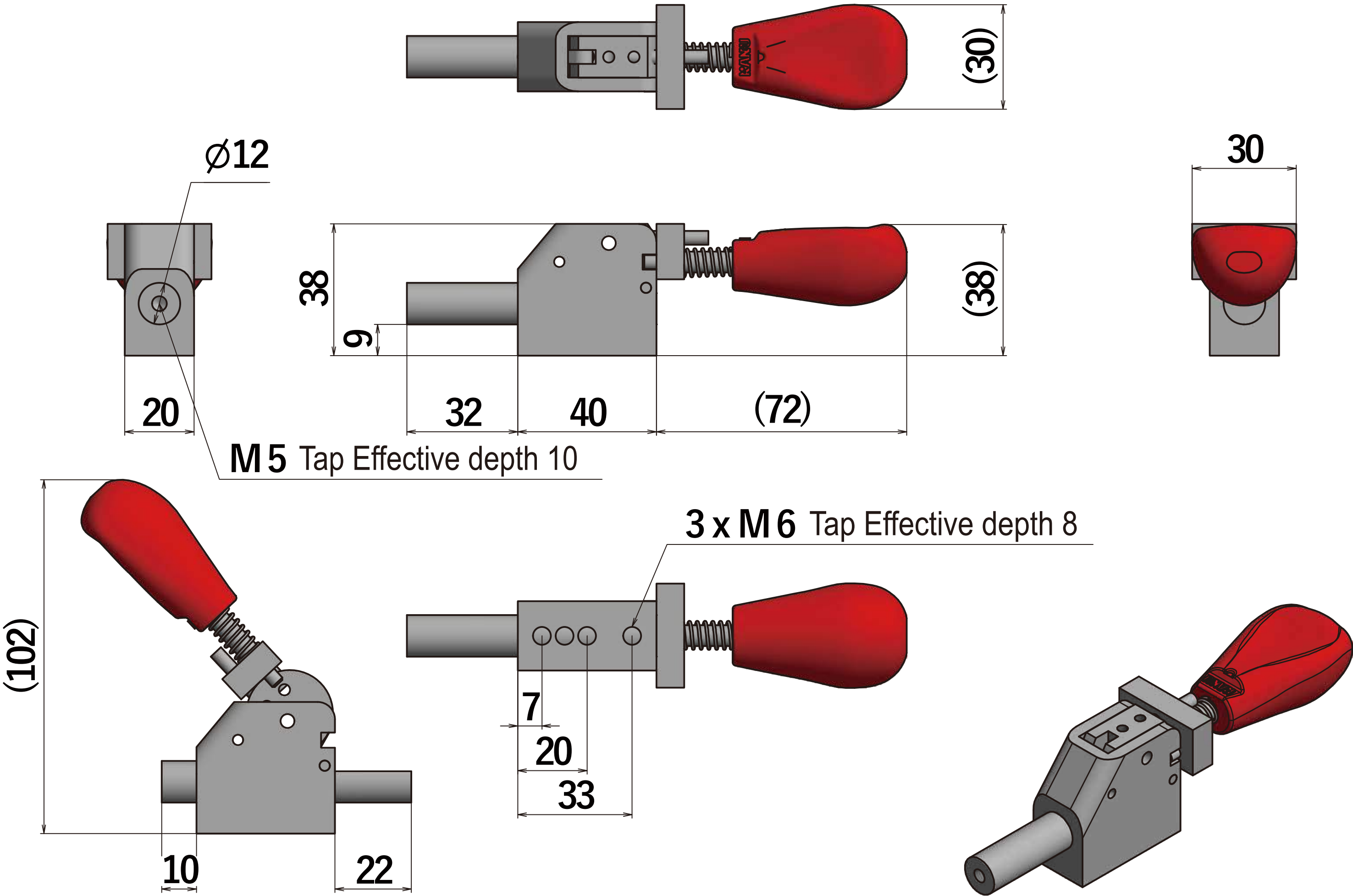


YSP-22ST-L

Allowable load: MAX2.5kN

<Material>
Body: Aluminum Spring: SUS304-WPB Grip: Plastic(P,P)
Cam/Connecting Arm/Slide Shaft/Grip Shaft: Stainless steel

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



PSP-33ST

Allowable load: MAX2.5kN

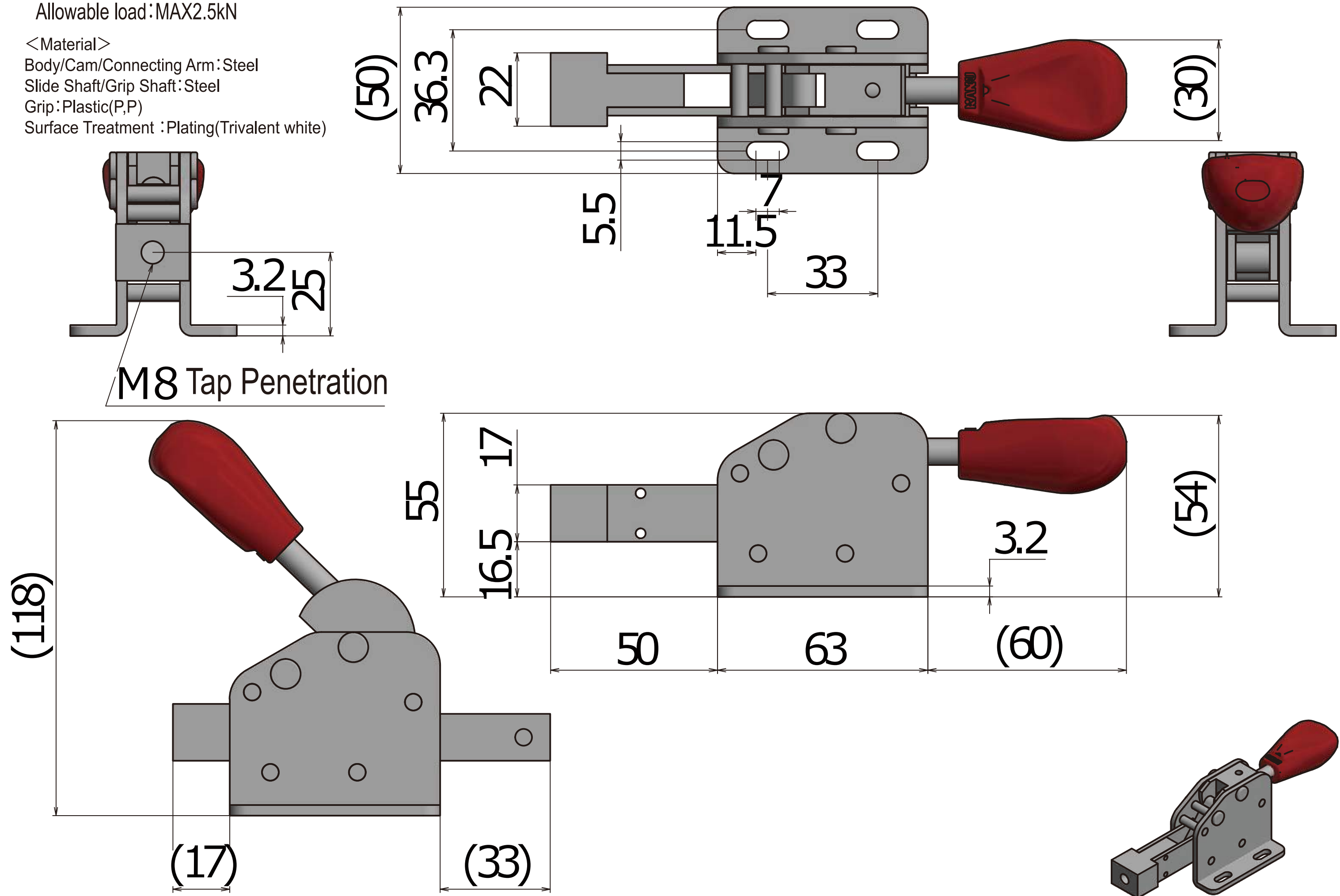
<Material>

Body/Cam/Connecting Arm: Steel

Slide Shaft/Grip Shaft: Steel

Grip: Plastic(P,P)

Surface Treatment : Plating(Trivalent white)



YSP-40ST

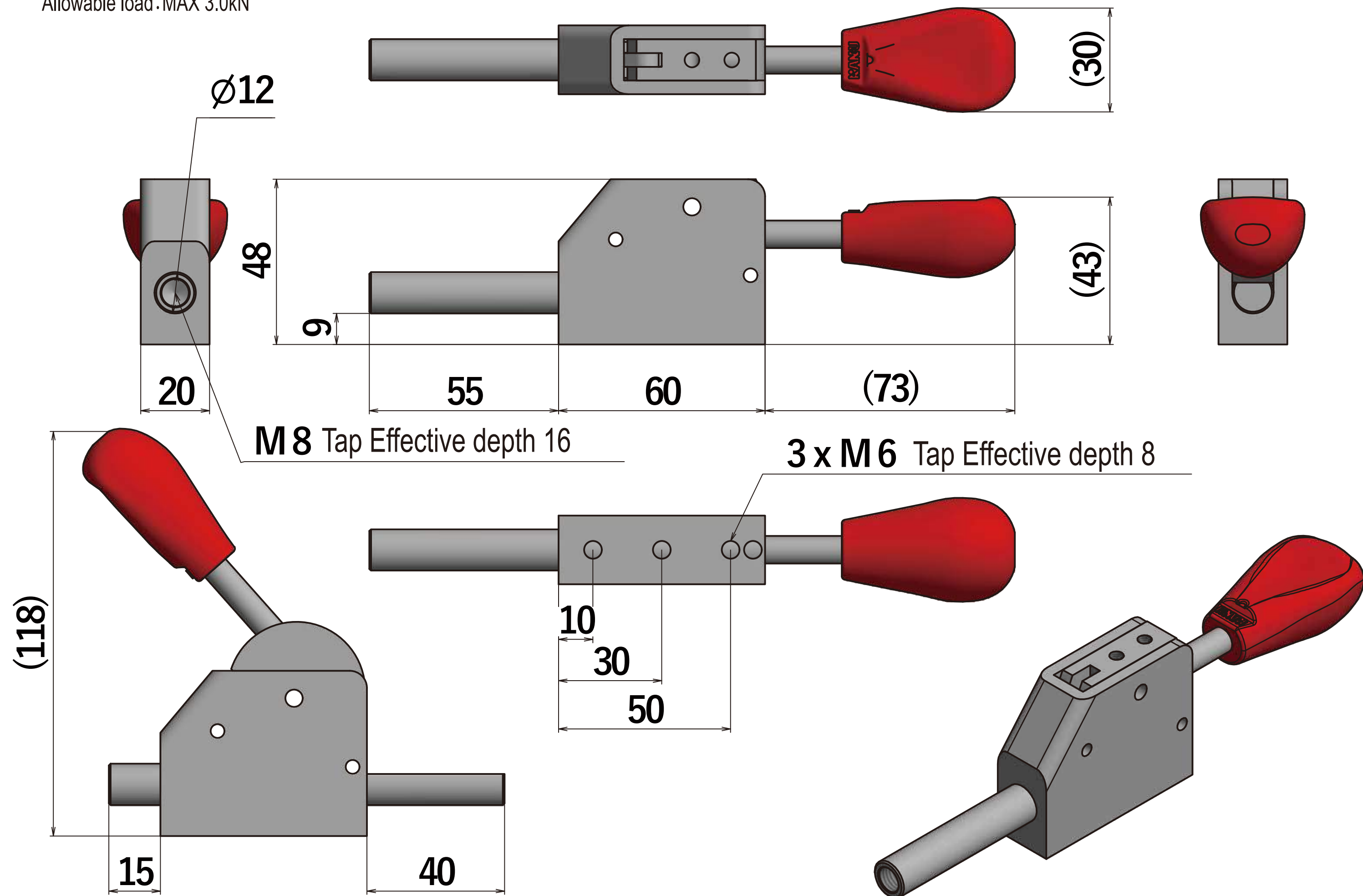
Allowable load: MAX 3.0kN

<Material>

Body: Aluminum Grip: Plastic(P,P)

Cam/Connecting Arm Slide Shaft: Stainless steel Grip Shaft: steel

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



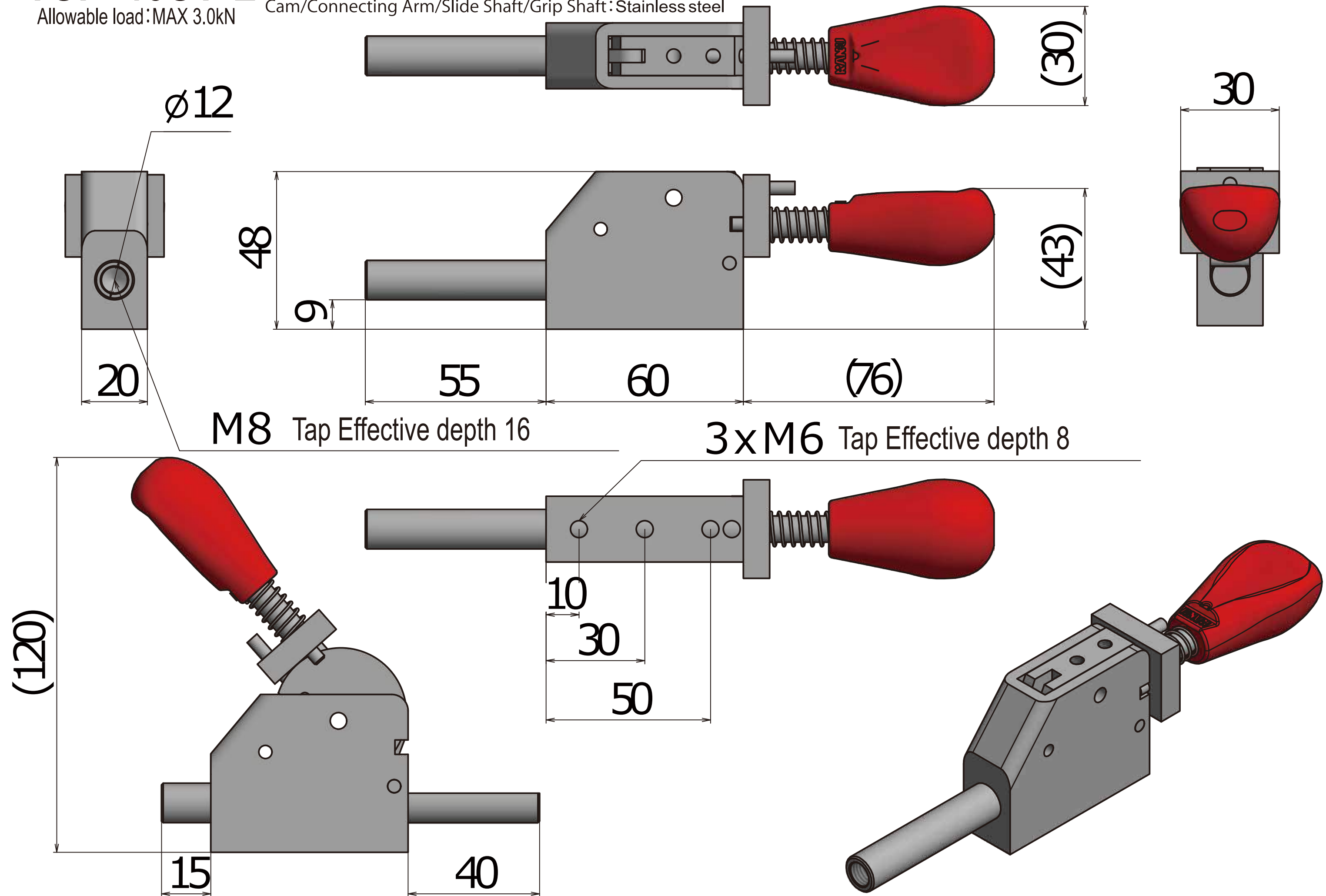
YSP-40ST-L

Allowable load: MAX 3.0kN

<Material>

Body: Aluminum Spring: SUS304-WPB Grip: Plastic(P,P)
Cam/Connecting Arm/Slide Shaft/Grip Shaft: Stainless steel

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



YSP-50ST

Allowable load: MAX 3.0kN

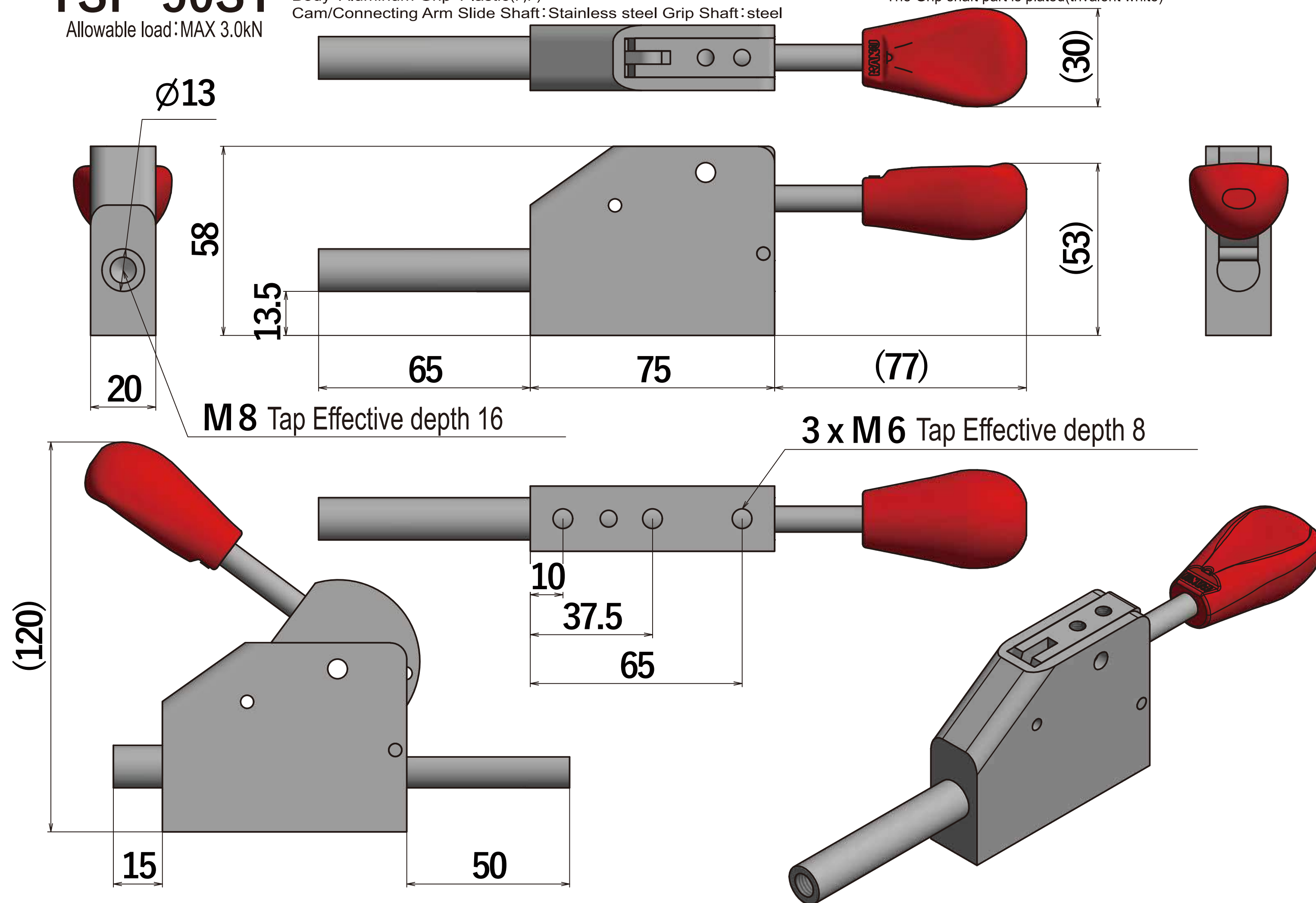
<Material>

Body: Aluminum Grip: Plastic(P,P)

Cam/Connecting Arm Slide Shaft: Stainless steel Grip Shaft: steel

The Surface of the Aluminum part and Stainless steel parts is untreated

The Grip shaft part is plated(trivalent white)



YSP-50ST-L

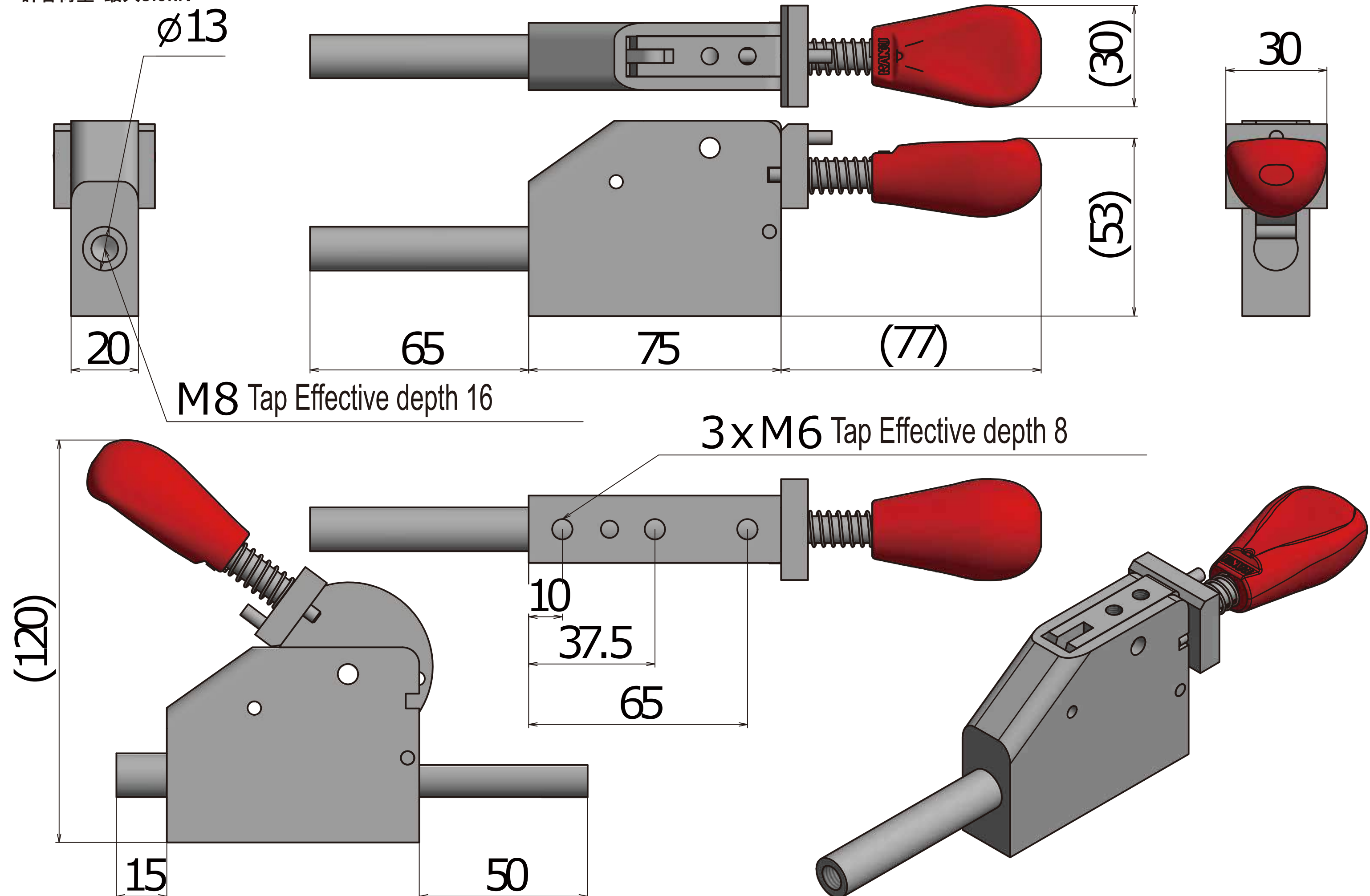
許容荷重:最大3.0kN

<Material>

Body: Aluminum Spring: SUS304-WPB Grip: Plastic(P,P)

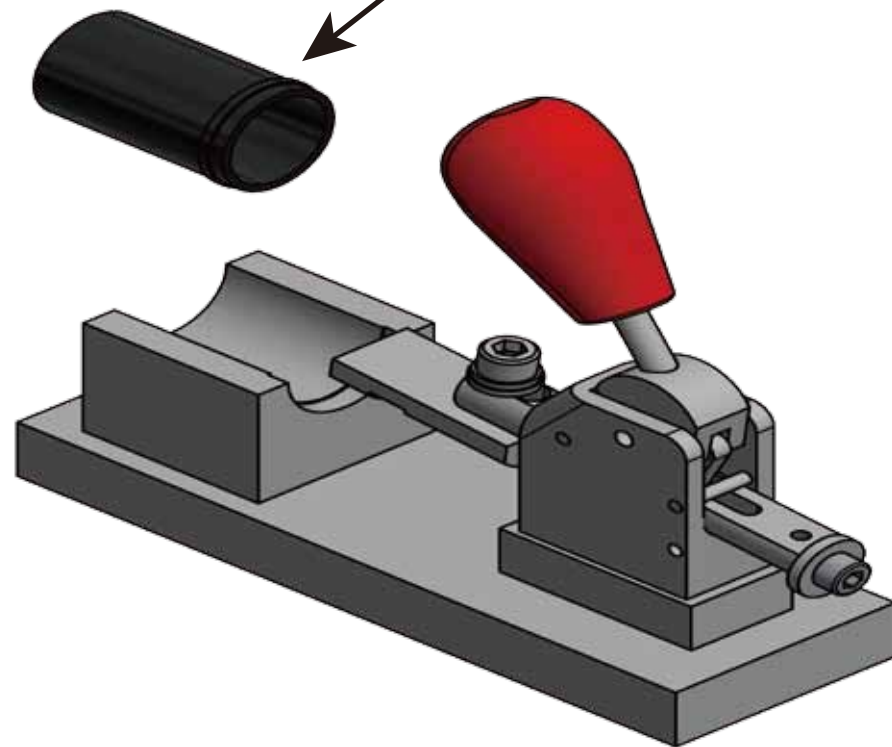
Cam/Connecting Arm/Slide Shaft/Grip Shaft: Stainless steel

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



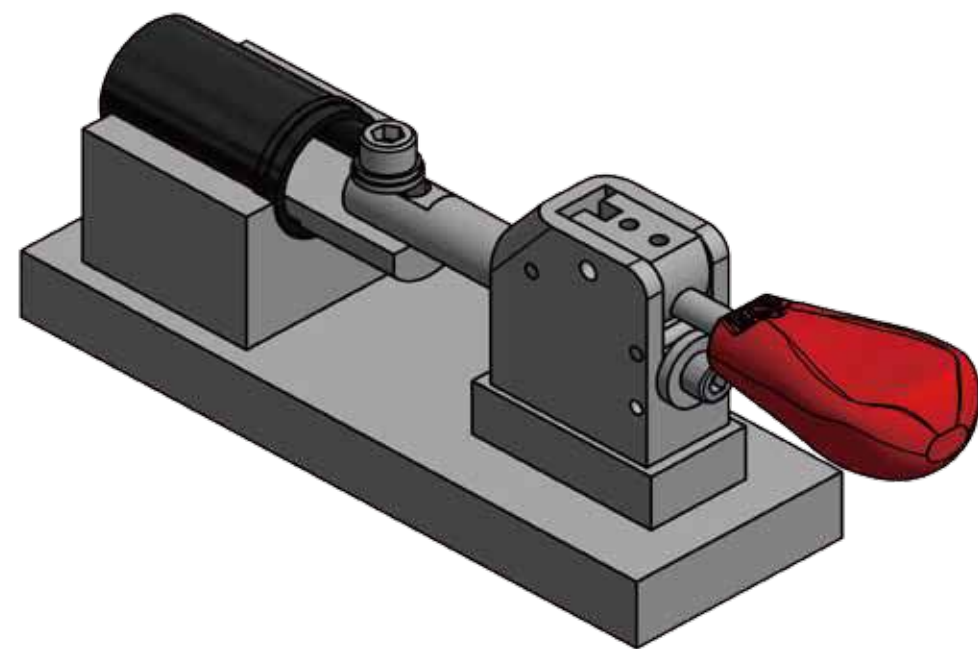
<Use Case>

Processing Object

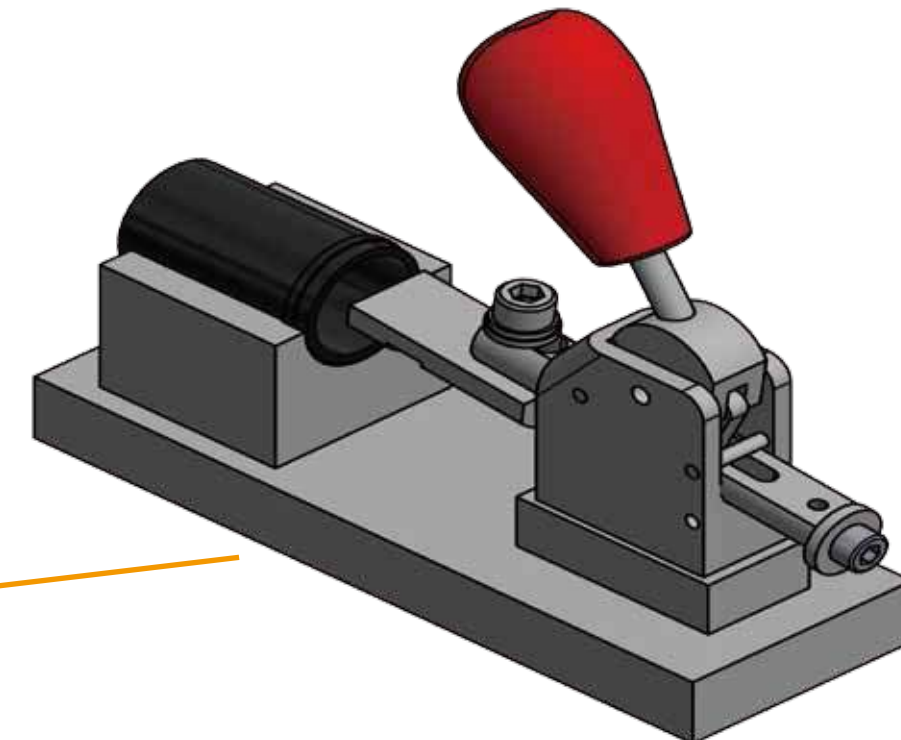


With conventional toggle Clamp, the presser arm moves in an arc,
So it could not be used to fix the inside of the pipe.
In the dual Clamp (lower presser type), the presser arm slides and moves,
So the pipe it is now possible to use such as fixing the inside.

I want to fix the inside of the pipe because I will process the outside of the pipe.
It's perfect for Situations like this.



Fixing of the processing target is completed.
Due to the dual structure of the toggle mechanism and the cam mechanism,
a pushing force was applied.
The feature is that it is hard to come off even at time.
(There is also a model with a safety lock.)



Set the processing target.
Operate the handle of the Dual Clamp.

※ Similar to the toggle Clamp, setting is required at the time of Installation.
Is it fixed in the intended state at the time of Clamping to prevent accidents.
Please Check it regularly.

SUD-20ST

Allowable load: Maximum 0.5kN

<Material>

Body: Aluminum

Steel Ball: SUJ2

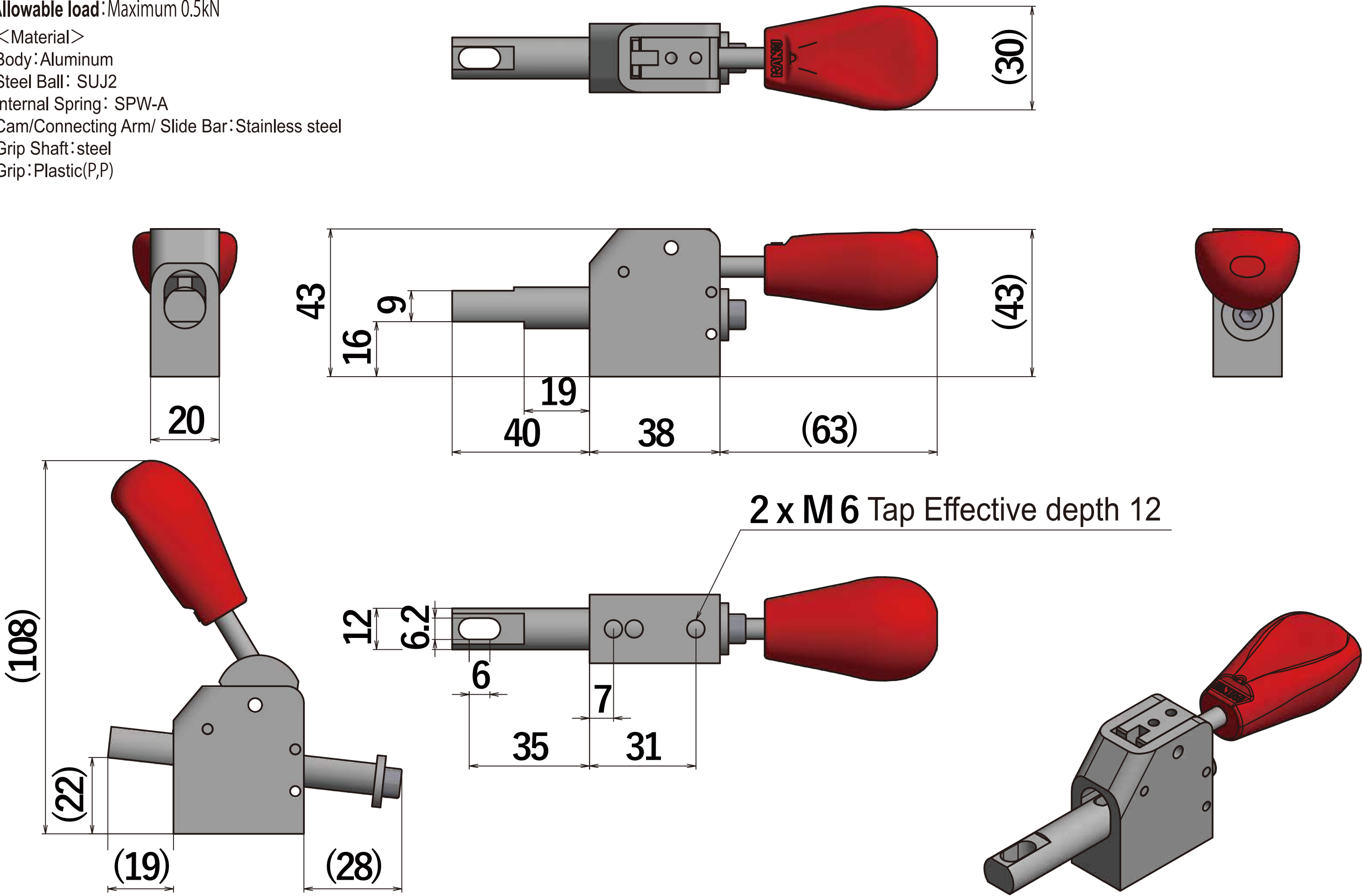
Internal Spring: SPW-A

Cam/Connecting Arm/ Slide Bar: Stainless steel

Grip Shaft: steel

Grip: Plastic(P,P)

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



SUD-20ST-L

Allowable load: Maximum 0.5kN

<Material>

Body: Aluminum

Steel Ball: SUJ2

Internal Spring: SPW-A

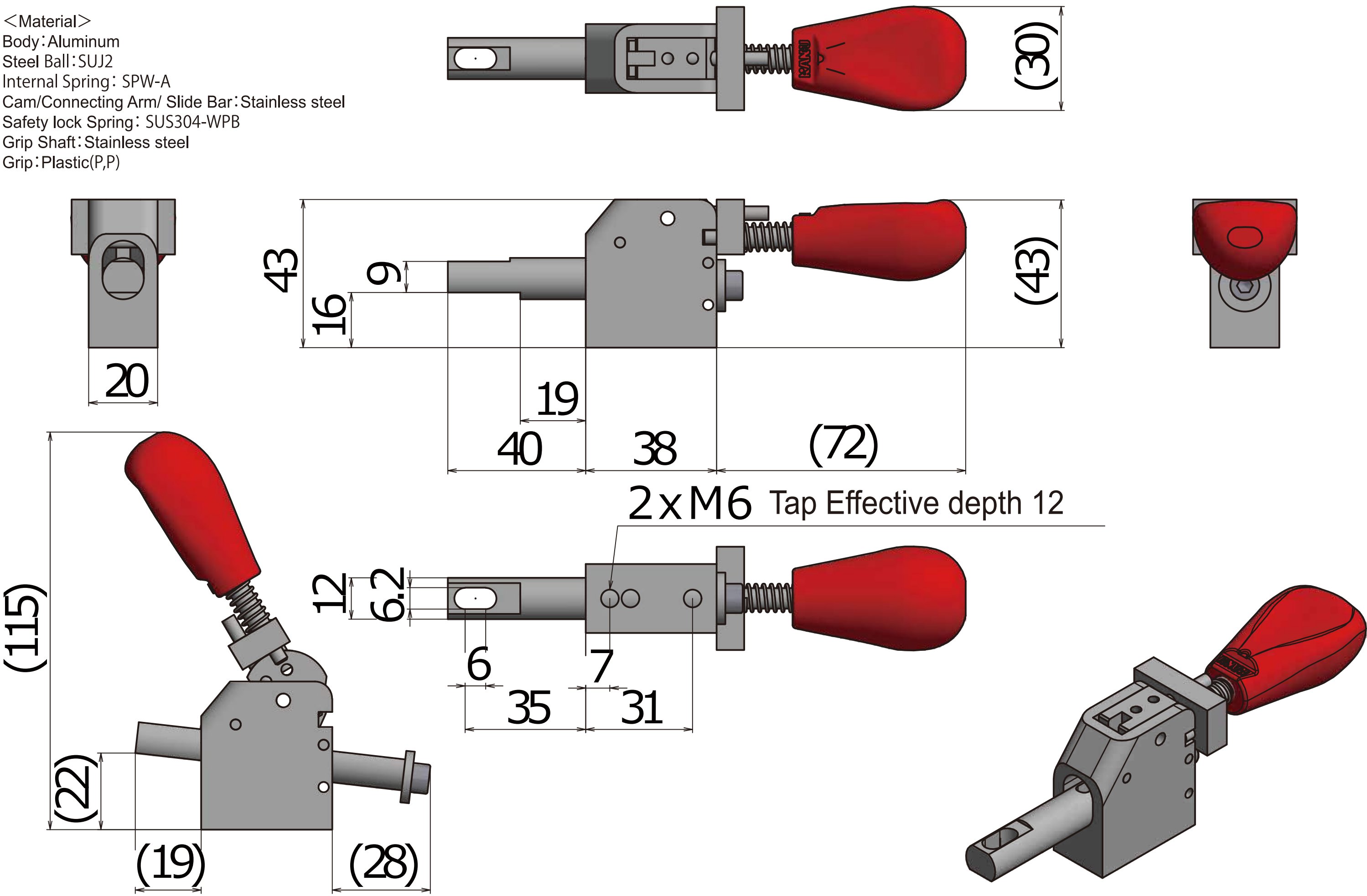
Cam/Connecting Arm/ Slide Bar: Stainless steel

Safety lock Spring: SUS304-WPB

Grip Shaft: Stainless steel

Grip: Plastic(P,P)

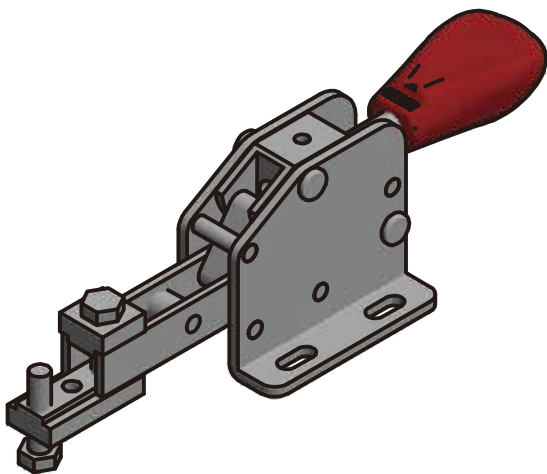
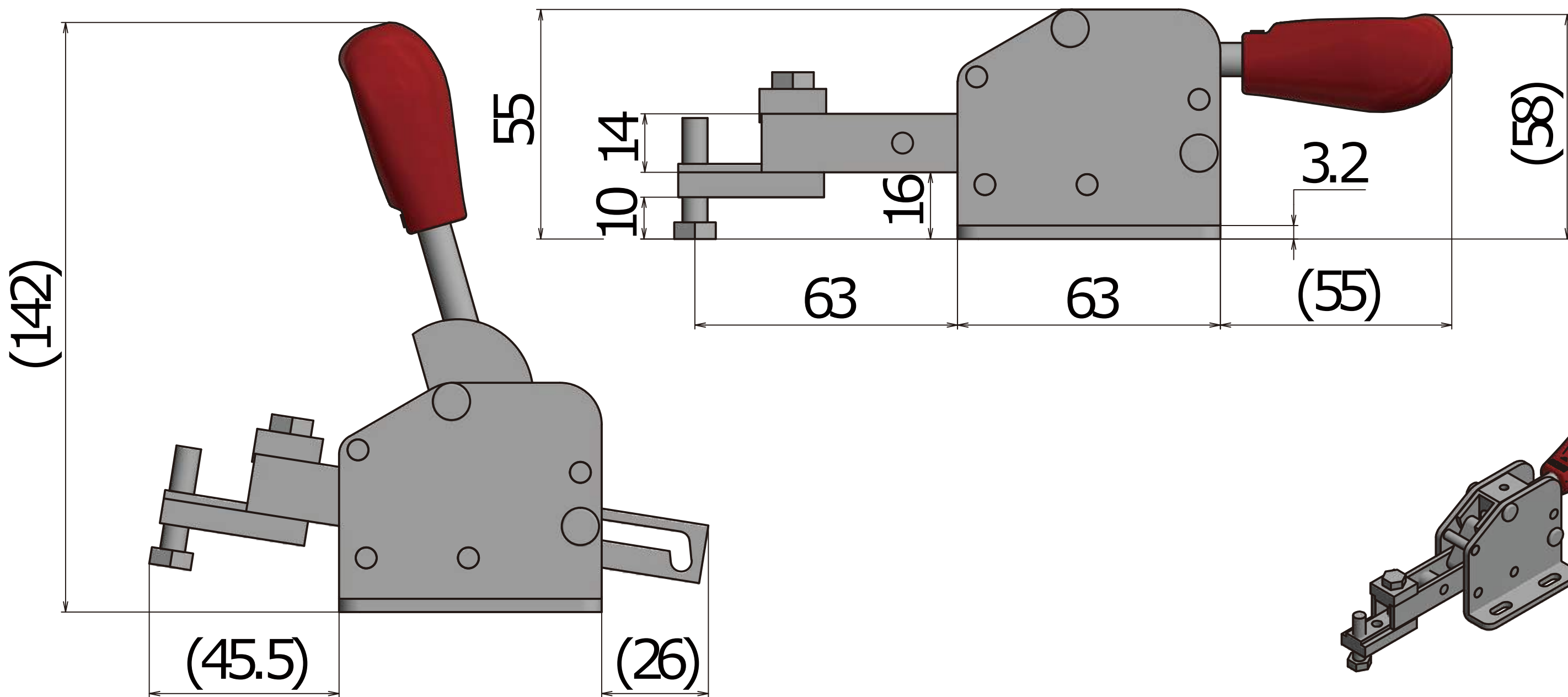
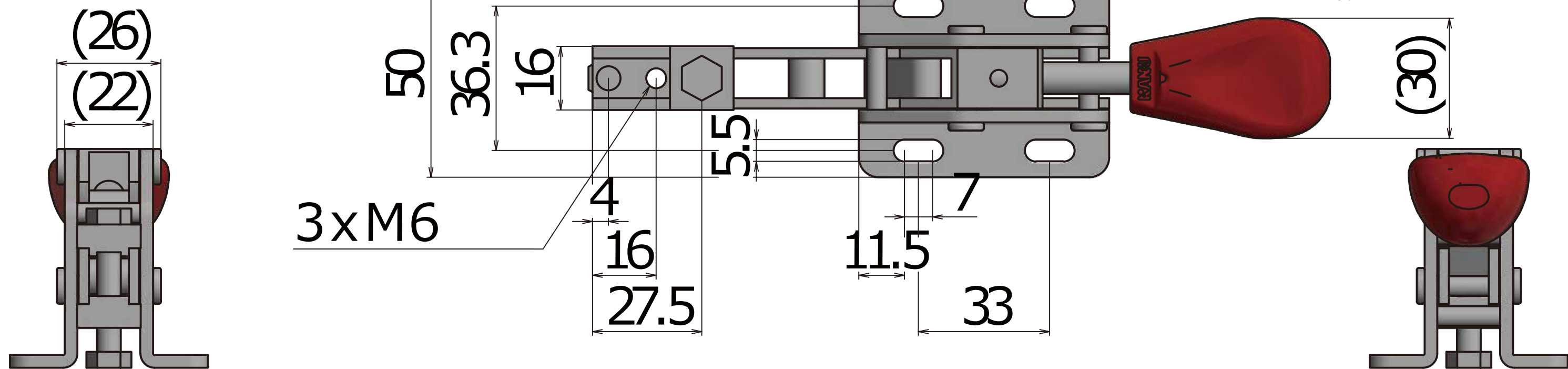
The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



PUD-25ST

Allowable load: Maximum 0.5kN

<Material>
Body/Cam/Connecting Arm/ Slide Bart/ Grip Shaft: Steel
Grip: Plastic(P,P)
Surface Treatment: Plating(Trivalent white)



SUD-34ST Allowable load: Maximum 0.3kN

Allowable load: Maximum 0.3kN

<Material>

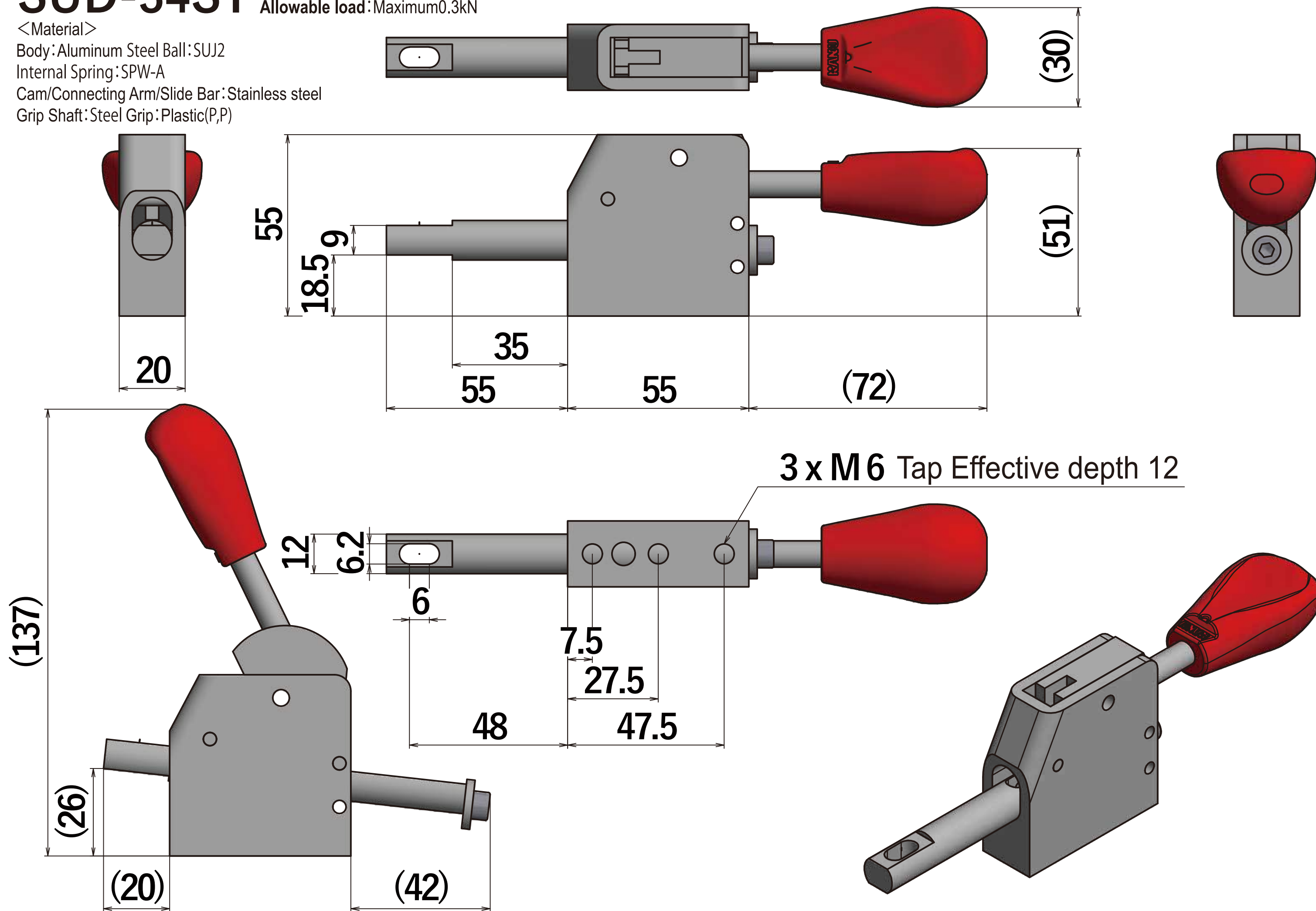
Body:Aluminum Steel Ball:SUJ2

Internal Spring:SPW-A

Cam/Connecting Arm/Slide Bar: Stainless steel

Grip Shaft:Steel Grip:Plastic(P,P)

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)



SUD-34ST-L

Allowable load: Maximum 0.3kN

<Material>

Body: Aluminum Steel Ball: SUJ2 Internal Spring: SPW-A

Cam/Connecting Arm/Slide Bar: Stainless steel

Safety Lock Spring: SUS304-WPB

Grip Shaft: Stainless Steel

Grip: Plastic(P,P)

The Surface of the Aluminum part and Stainless steel parts is untreated
The Grip shaft part is plated(trivalent white)

