RUBBER — COVERED PLASTIC SLEEVES

1. A principle of rubber covered plastic sleeves

This rubber covered plastic sleeves system is that a copress air is shouted from an inside of the mandrel cylinder,and air pressure makes expansion inside of sleeves, and that at the same time there are very few friction resistances as a thin air layer is made between cylinder and sleeve,so equiping and moving in and out are smoothly.

Consequently,the outside diameter of mandrel cylinderis bigger than the inside diameter of a sleeve.

If you get rid of an air pressure after equiping, inside diameter of a sleeve becomes as before, there is no slip and it's fixed.

The outside diameter of mandrel cylinder is used straight proccessing.

2. Materials of plastic sleeves

Plastic parts of the basis of sleeves are consisted of hard resin layer (1.5mm) being mixed with grass fiber.

Sleeves are used imported articles from Poliwest Comp.(German), but it is a plastic article that melted plastic layer twists to a mandrel cylinder,and after stiffened, pulls out sleeves only by an air pressure.

3. Rubber covered materials

It's possible for rubber covered materials to be manufactured to all rubber materials like iron rolls.

Standard specifications were manufactured with NEON(blend of NBR and EPT) and hardness at 70 ℃ in the country.

But for preventing from sticking with films, they are used special transaction on the surface.

As only rubber surface layer is stiffened by special liquid, phenomenon of being wore out and peeled off never happened by cleaning a surface with acetic ethyl acid.

But it's impossible to use it when there is a soaking condition in a solvent because of expansion of a rubber.

Before using it, ask us about using liquid and select a good rubber materials.

When grind manufacturing again, it is needed to transact surface again.

If you need conductible rubber cover, contact us. We have conductible sleeves.

4. Using air pressure

Be punctual to maintain and recognize of over 6.0kg/cm²(G) air pressure.
And be careful of a shortage of air pressure and air quality. Because this time, it's difficult to equip with sleeves.

≪Matters to be attended to handle≫

1. Being careful of the injury at the edge of the inside of sleeves

As equiping and detatching with sleeves are only used air pressure from the inside of sleeves, if there is an injury at the edge of sleeved, it is difficult to detatch.
Because if air leaking happens there, air pressure can't increase.
When keeping it vertically, put a rubber pad under it and keep carefully without getting injury.
And at the case of inserting methods to the pipe with horizontally, rotate and maintain once a month for preventing the change of rubber shape.
When keeping it in a gas tube directly, you need a cover of plastic pipe, as there'll be a injury inside of a sleeve.

2. Strictly prohibiting to use a sandpaper for filling inside of a sleeve

When you put ink or grew inside of sleeves, get rid of it with solvent quickly.
If you get rid of dried sticking things with a sandpaper, it becomes a cause of being worn out of sleeve layer and air leaking. You shouldn't do it.

3. Cleaning of a mandrel and a cylinder after working

As splashing of liquid will be happened during applying, you should get rid of and clean with mandrel and sleeves completely just after working.
Especially, be careful of cleaning the operation side(M-side).

4. Wiping off methods of the surface of rubber sleeves

At the case of the liquid remaining on the surface of sleeves, wiping off them quickly with a piece of cloth that was soaked in a solvent.
Usually, it's used Ethylacetate or MEK.
It's not a problem to use them for a short time, but not good to use so long time.
Because rubber materials 'll expand with them, they are cause of wrinking.
And it's impossible to use toluene.

5.Grinding methods of rubber sleeves

At the case of grinding rubber sleeves or repairing cut, you should manufacture after equipping with appointed mandrel cylinder.

If not equipping with mandrel, manufacturing is done on the taper center.

For that, precision of sleeve is not good, and it's cause of injury or change of the corner of a sleeve.

And it's a cause of air leaking.

Counsel to us about using mandrel.

6. Cleaning on the surface of mandrel and inside of sleeve

Clean regularly.

Because there are a lot of dust or spread liquid both on the surface of mandrel or inside of a sleeve, and rusting will happen from the inside of cylinder by a water in a pressure air.

We recommend an application of a lubricating oil spray(CRC) from about 200mm at the side of insert part of mandrels and sleeves in a usual operation.

For that, oil spreads on the whole of mandrel cylinder, and prevention from a rust and equipping work becomes stabilize.

Be careful that it's easy to collect sticking things in a part of air nozzle where a ball is hold by a spring, because of around a nozzle being more lower.

At the case of happening air leaking so many times from a part of nozzle, this cause is that nozzle ball can't be moved easily.

You should change it so quickly.

7. A countermeasure at the case of being impossible to move in and out rubber sleeves

There are countermeasures when you can't pull out rubber sleeves suddenly.

They are causes of not pulling out sleeves smoothly that there is a sticking thing both ends of mandrel or air leaking by an injury, transformation, or damage inside of sleeves.

At first, get rid of sticking things both sides of mandrel with a solvent.

Next, confirm weather air pressure is suited or not.

You need to return to normal air pressure(over 6.0kg/cm^{2}G), as sleeves moving in and out are done only by an air pressure.

Cause of decreasing air pressure is only air leaking.

As an air leaking place is almost from an edge of sleeves(operate side), when you can't pull out by an air leaking, equip with a hose band which is supplied from our company at an edge of sleeves.

Next, tighten a screw and wring until stopping an air leaking.

So loosen a screw until happening very few air leaking from an edge of sleeves, and pull out sleeves after stopping an air leaking and an air pressure recovering inside of mandrel(over 10 seconds).

It's possible to pull out if you make very few air leaking.

Without using sleeves after moving in and out, send back and ask repairing to us so quickly.

You shouldn't hit with a hammer, it's a cause of injury.

8. A countermeasure of the later

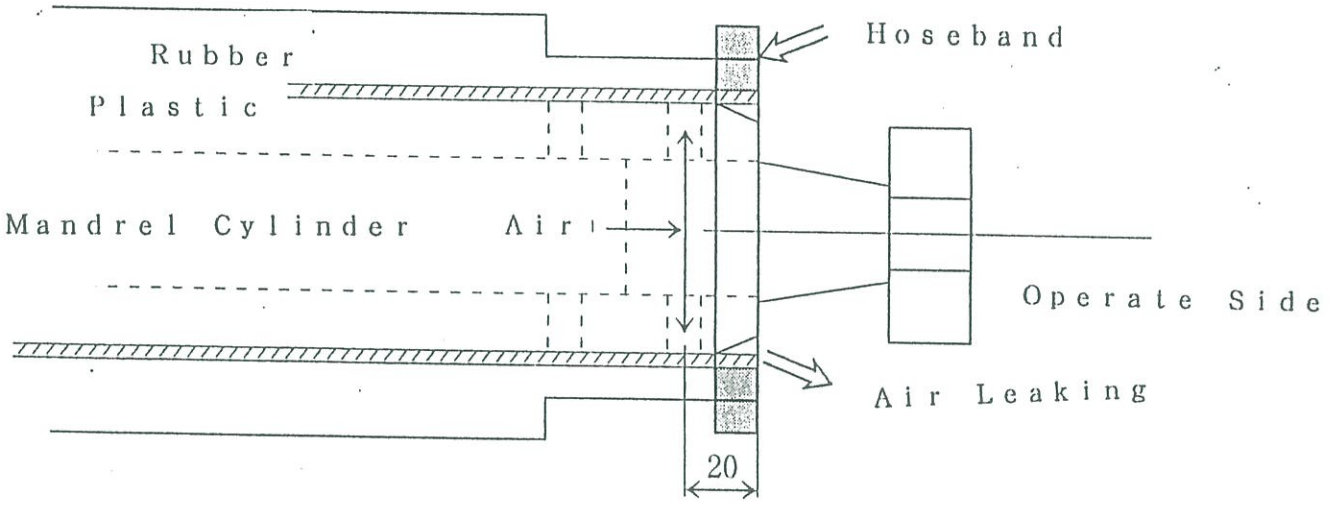
After using it long time in your company, if there are so much air leaking from a edge of sleeves, send back to us quickly.

So we have sleeves that we can repair injury parts by emergency measures.

As plastic sleeves are though, but they are fragile and get hurt easily, we recommend that marking on the sleeves and equipping them to a same direction.

Put a side of not being afraid of air leaking from an edge of sleeves towards to operate side.

Use a hose band as accessories.



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