

Your Partner for Sealing Technology

MACHINE SLYD - A

MACHINE SLYD - A

YOUR PARTNER FOR SEALING TECHNOLOGY

Advanced Sealing Technology is the distributor for leading famous brands for The Netherlands. Advanced Sealing Technology offers dedicated design and development from the market leading famous brands products and material Portfolio; a one-stop shop providing the best in elastomer, thermoplastic, PTFE and composite technologies for applications in aerospace, industrial, and automotive industries.

With 30-years' experience, Advanced Sealing Technology engineers support customers with design, prototyping, production, test and installation using state-of-the-art design tools. We also make use of the international production network of over 50 facilities among them several famous brands.

Advanced Sealing technology fulfills challenging service requirement, supplying standard parts in volume or a single custom-manufactured component.



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APPLICATION EXAMPLES

Thickness	Minimal Width	Minimal Length
1.0mm	100mm	1M
1.5mm	100mm	1M
2.0mm	100mm	1M
2.5mm	100mm	1M
3.0mm	100mm	1M
3.5mm	100mm	1M
4.0mm	100mm	1M
4.5mm	100mm	1M
5.0mm	100mm	1M

We also deliver custom made dimensions

DESCRIPTION & APPLICATION

Machine Slyd - A is a high performance thermoplastic material for use on linear bearing application as found on the guideways of machine tools and other linear bearing applications. Guideways on machine tools ensure the exact direction of motion of components such as slides, sleeves, quills, plungers, etc. At the same time, guideways must bear the weight of the guided components and workpieces and absorb the machining forces without deformation.

This places critical demands on the machine tool guideways:

- Low friction without stick-slip as a precondition for positional accuracy at differing velocities
- High positional accuracy and repeatability of the working movements
- High performance over many years
- Low production costs
- Low wear, even in the event of poor or failed lubrication
- Backlash-free or minimum backlash for high repeatability even under load

Machine Slyd - A has been well proven in the world for many years in many sectors of machine tool and other heavy duty engineering industries.

We deliver for

Milling machines	Machining centres	Drilling machines
Grinding machines	Lathes	Saws
Bridge support	Skids	Constructions/civil engineering
Pipe and cable expansion support	Product guides	Maintenance Refurbishment



MACHINE SLYD - A PHYSICAL & MECHANICAL PROPERTIES

Only one side is chemically treated for applying adhesive. Colour of the treated surface is dark brown
Colour of the non-treated surface is green which is sliding surface.

- Water absorption: < 0.01 %
- Linear coefficient of expansion: $6 \times 10^{-5} 1/K$
- Thermal conductivity at 20 Deg C: $0.8 W/m \cdot K$
- Max. pressure load for 1% deformation: $930 N/cm^2$
- Hardness: 60 Shore D
- Modulus of elasticity at 40°C: $1,000 N/mm^2$

Machine Slyd - A has a very good chemical resistance and is resistant to coolants, clear coolants and lubricants.

Storage instructions

Machine Slyd - A should be stored at room temperature and in dry environments protected from light. The shelf life is limited and depends on the storing conditions

Application Area

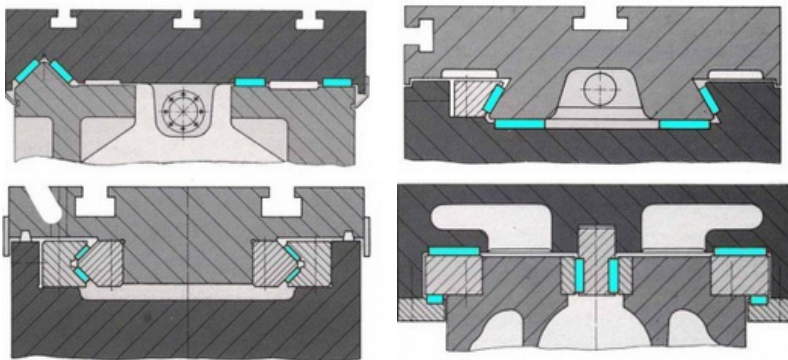
Machine Slyd - A is a low friction linear bearing strip material for use, primarily, on the ways and gibs of machine tools. Now a days widely using in Bearings, Rollers, Bushings, Guides, Sleeves, Thrust washers, Valve seats, Gears, Liners, Wear surfaces, Seals, Insulators & Cams.

Features

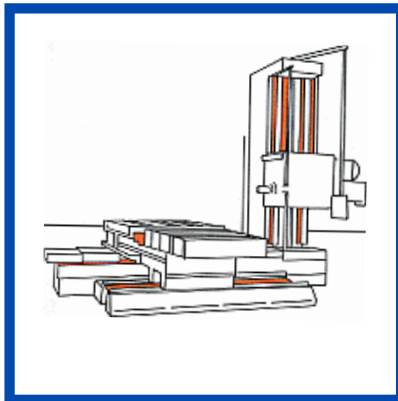
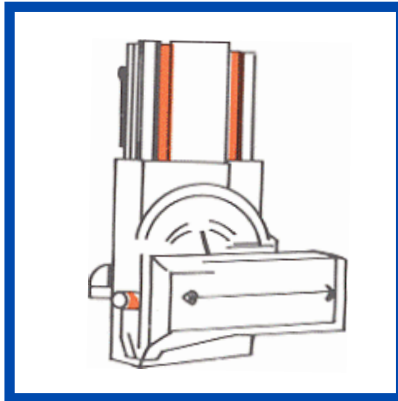
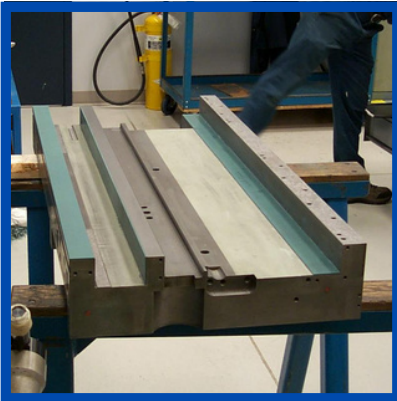
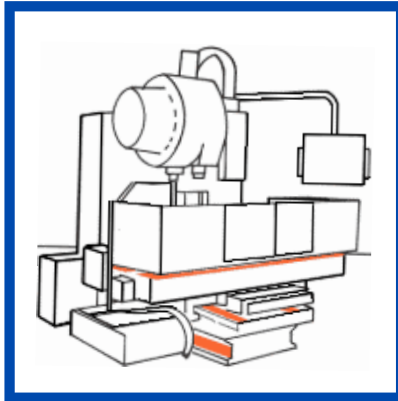
It provides low friction, stick-slip free operation, long life and minimum wear. Its main features are Self-lubricating, Maintenance-free, long-wearing bearings, Low cost, High chemical resistance, Moisture resistant, Always oven annealed for stress-relief and well suited to a wide range of temperatures.

Results

Machine Slyd - A increases accuracy, reduces damage caused by mechanical breakdowns and lubrication failures, saves energy, and improves stick slip performance extends the life of mechanical components.



DESIGN & APPLICATION

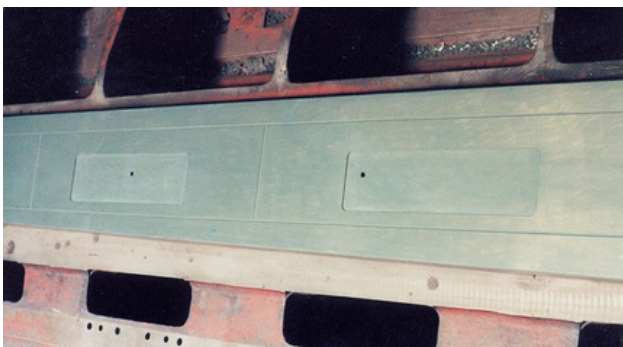


MANUFACTURING PROCESS

Machine Slyd - A is PTFE (PolyTetraFluoroEthylene) resins and added fillers of bronze that are extruded into solid billets, as opposed to compression molding. Billets are then skived to a nominal thickness in 12"(305mm) wide rolls.

Direction of Installation

- Select required thickness
- Cut The Machine Slyd
- A to required length and width
- Remove the existing Machine Slyd - A if applicable
- Strip the surface with an industrial stripper
- Use 3M Two-part Epoxy or Araldite or equivalent bonding agent
- Mix the bonding agent according to manufacturer's specifications
- Evenly apply the bonding agent to the bottom (rough side) of the Machine Slyd – A.
- Evenly apply the bonding agent to the way surface
- Position the Machine Slyd - A correctly with the surface
- Put equal sized foam board sheet on pasted Machine Slyd – A
- Then put equal sized steel plate on foam board sheet, and clamp it
- Hold it for 6 hours minimum. (Refer mfgs spec)
- Machine the new Machine Slyd - A to the work order specifications





The information in this brochure is intended to be for general reference purposes only and is not intended to be a specific recommendation for any individual application. The application limits for pressure, temperature, speed and media given are maximum values determined in laboratory conditions. In application, due to the interaction of operating parameters, maximum values may not be achieved. It is vital therefore, that customers satisfy themselves as to be suitable of product and material for each of their individual applications. Any reliance on information is therefore at the user's own risk. In no event will Advanced Sealing Technology be liable for any loss, damage, claim or expense directly or indirectly arising or resulting from the use of any information provided in this brochure. While every effort is made to ensure the accuracy of information contained herewith, Advanced Sealing Technology cannot warrant the accuracy or completeness of information.

To obtain the best recommendation for a specific application, please contact Advanced Sealing Technology.

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THE BEST SEALING
SYSTEM IS DETERMINED
BY ITS FUNCTIONALITY



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