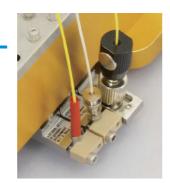
NTT-AT can make jigs from 1 insert on up. Move from planning and development to structural construction for mass production quickly and smoothly.

The ATP-3000 polishing machine's independent pressurization jigs use a unique attachment structure, and so polishing jigs from even 1 insert (1 terminal) can be manufactured to match the customer's request. Evaluation of risky polishing processes, such as special material quality polishing, process improvements, etc., can be done at low cost, and by simply adding inserts, you can easily build a structure for mass production.

Specialized Polishing Example (actual usage) Materials :Silica glass, various resins, ceramics, various metal, etc.

Shapes :Cylinder, thin board, cube, bare fiber, etc.

:Spherical (UPC, APC), flat (0 - 45 degrees), Spherical Lensed Fiber, etc. Polish types Polish processes : Priority for polish accuracy, cost, or roughness, dry polish, others.



Specifications

Main Unit		Polishing Specif	ications	
Dimensions	310W x 460D x 350H (mm)		ROC (mm)	10 <upc<25< td=""></upc<25<>
Weight	25kg	Single Polish(PC)	Apex Offset (μm)	<50
Power	AC 100 to 240V, 150W		Fiber protrusion (µm)	< 0.05
Polishing Method / Speed	Rotation: 0 to 270 rpm / Reciprocation: 10 to 600 sec		RX (mm)	>2000
Polishing Plate Size	140mm x 140mm (5.5in square)	MT Polish	RY (mm)	>5
		WII FUIISII	Angle (degree)	±0.2
			Fiber protrusion (μm)	1~3.5

Jig Overview

Туре	Jig Name	Mounts		Connectors	Model	Mounting method
	Individual Pressure Jig for Ferrule	24 F	Ferrule	SC, FC, Simplified SC	ATP3000-A05	THE PARTY OF THE P
				LC, MU	ATP3000-A02	delet 11
				Simplified MU	ATP3000-A04	Set Block Type
	Individually Pressurized Universal Jig	22 silly Pressurized Universal Jig	Ferrule	SC, FC	ATP3000-AZ0001	6
				LC, MU	ATP3000-AZ0005	
				E2000/APC	ATP3000-AZ0021	6
				Φ2.5mm	ATP3000-AZ0014	SC, FC ferrule LC, MU ferrule
For Single Fiber				Φ1.25mm	ATP3000-AZ0015	
ribei			Connector	SC(SC2)	ATP3000-AZ0007	
				SC/APC	ATP3000-AZ0009	
				FC	ATP3000-AZ0002	
				FC/APC	ATP3000-AZ0010	SC plug FC plug LC plug
				LC	ATP3000-AZ0006	
				LC/APC	ATP3000-AZ0008	
				LC-Duplex	ATP3000-AZ0018	SC APC LC APC LC Duplex Individual Insert Type
For Multi- Fiber	Individually Pressurized Universal Jig		Ferrule	MT 0°	ATP3000-AZ0003	6000
				MPO 8°	ATP3000-AZ0013	A CONTRACTOR OF THE PARTY OF TH
				MT-RJ 0°, miniMT 0°	ATP3000-AZ0012	MT 0° MP 8° Individual Insert Type

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http://www.ntt-at.com/product/atp3000/



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OPTICAL CONNECTOR POLISHING MACHINE ATP-3000 SERIES



NTT-AT OPTICAL CONNECTOR POLISHING MACHINE FOR MASS PRODUCTION





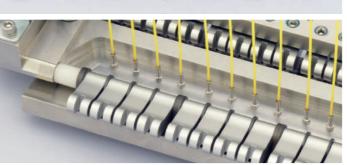
ATP-3000 SERIES

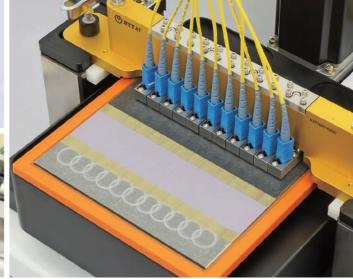












Optical connector polishing machine for Mass Production Use, the ATP-3000 Series.



Along with the ongoing expansion of applications for optical connectors, the optical connector polishing machine ATP-3000 can handle not only standard optical connectors, but also prototype polishing of newly developed products up to various kinds of small volume to mass volume production. While reducing capital investment costs and process development investment, the ATP-3000 realizes the latest polishing specifications and high efficiency in terms of polishing costs, making it highly popular with everyone.

ATP-3000 SERIES

1. Low cost · High quality polishing

The independent pressure polishing jig, omits the expensive intermediate process for adjusting differences in dispersion of the polished items. Its unique polishing path enables polishing right up to the corners of square polishing film, minimizing waste. In addition, since the path overlap is minimal, polishing scratches are also minimized.

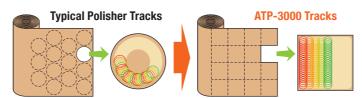
2. The evolution to automatic and semiautomatic machines

With a Windows PC and a sequencer, it is extremely easy to handle bulk polishing lines, build semi-automatic machines, and incorporate automated lines, all in compliance with standard entering operation commands. This contributes to labor saving on the production line.

3. High versatility, even for multi-product small volume production

In addition to standard optical connectors, a wide range of polishing, from single fiber to credit card sized boards is possible. Since you can polish from one jig (with no dummy needed), it is also ideal for small starts for newly developed products.

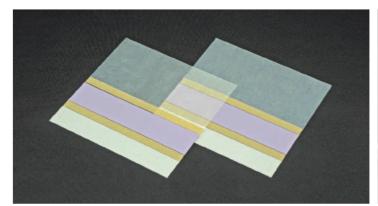
(Versatility example: With one ATP 3000, it is possible to finish polish MPO / PC and LC / PC all at the same time.)

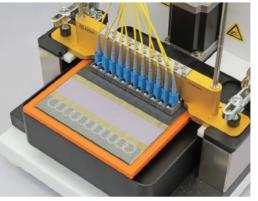


Batch Process Polishing Film MC-Film

Polishing film that enables from adhesive removal to final polishing in one process.

- Just one polishing film sheet and one process > Automated polishing with one machine!
- No need for changing polishing film between processes > Enables polishing time savings and reduced space required!
- No cleaning between processes > No special skills required, minimizes polishing abnormalities and risk of scratching!





Single Fiber Optical Connector Polishing Solutions





Polishes up to 22 connector plugs. And the individual pressure system lets you polish as few as 1 at a time. Besides connector plugs, it can do specialized polishing such as all types of ferrule and bare fiber.

Single Fiber Ferrule (SC, FC) Standard Polishing Processes

Process #	Name	Polishing Film	Polishing Fluid	
4	Pre-condition	Adhesive removal film	Distilled Water	
- 1	Adhesive Removal	Auticsive removal min		
2	Mid-processing	Diamond Film	Distilled Water	
3	Finishing	Silica Film	Distilled Water	

Merits of the individual pressure system

- only 3 process polishing
- •Possible to polish different connectors at the same time. E.g. SC, FC, ST
- •Prevent over-polishing (Finish polishing amount 50 um or less)

Multi-Fiber Optical Connector Polishing Solutions





Polishes up to 22 ferrule plugs. And the individual pressure system lets you polish as few 1 at a time. One jig can be used for multiple types of ferrule; ideal for setting conditions and testing applications.

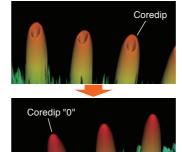
Multi-Fiber ferrule (MT) Standard Polishing Process

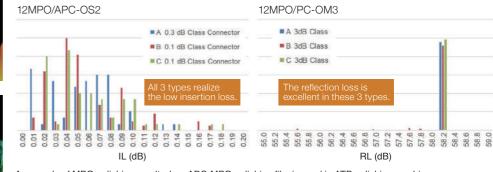
	. ,	•		
Process #	Name	Polishing Film	Polishing Fluid	
1	Adhesive	AAS-GC16A-R140-12	Distilled Water	
2	Removal	AAS-GC03A-R140-12	Distilled Water	
3	Flat Polish	AAS-RFZZA-140-140	AMS-EHZZ-1L	
4	Protrusion Polish	ADS-MP0-140	Distilled Water	
5	Final Polish	AAS-RFZZA-140-140	Distilled Water	

ADS-MPO can realize a low reflection in multimode fiber connector equivalent to that of single fiber connecter by polishing a convex shape to eliminate dips in the core (Coredip)

- •low return loss by coredip value of "0"
- OS2/APC: 80dB, OM3/PC: 58dB (Measuring device: Opto Test)

 •Possible to improve a insertion loss by preventing over-polishing
- Achieved 80dB by Grade B ferrule (OS2/APC)
- ${}^\star\mathsf{The}$ results described above don't guarantee the future results.





A example of MPO polishing result when ADS-MPO polishing film is used in ATP polishing machine