

	Doc or ECO #:	ECO-70824-001	Date:	1/19/2022	Author:	aeg
	Rev. #:	A				
Engineering Change Order (ECO)	Engineering Approval:	aeg	Date:	1/19/2022	Quality Approval:	aeg

P/N #:	70824	Effective Date:	January 19, 2022
Title:	Rotating manipulator quick change head		

1.0 Purpose / Summary

In order to improve user experience and allow of the option of putting a defender in it's case without retracting the manipulator, the end effector attachment method was modified to be tool less and quicker to change.

2.0 Parts Affected

Part Number	Notes	Removed	Added	Modified	REV
70824	MSS Rotating Manip Integration Kit	☐	☐	☒	D
73718	Quick Connect Manipulator Assembly	☐	☒	☐	A
73024	Quick Connect Two Function Manip	☐	☒	☐	A
73009	Trident Jaw Quick Connect Assembly	☐	☒	☐	A
73040	V Jaw Quick Connect Assembly	☐	☒	☐	A
73090	QUICK CONNECT PARALLEL JAWS ASSEMBLY	☐	☒	☐	A
73100	QUICK CONNECT SAMPLER JAW ASSEMBLY	☐	☒	☐	A
73445	QUICK CONNECT CUTTER JAWS ASSEMBLY	☐	☒	☐	A

3.0 Detail

To improve user experience with end effector removal and to allow for the Defender to be placed in the case without retracting the manipulator a new attachment mechanism was designed.

A new screw quick release attachment mechanism was designed and implemented on the body and end effectors. The new mechanism uses

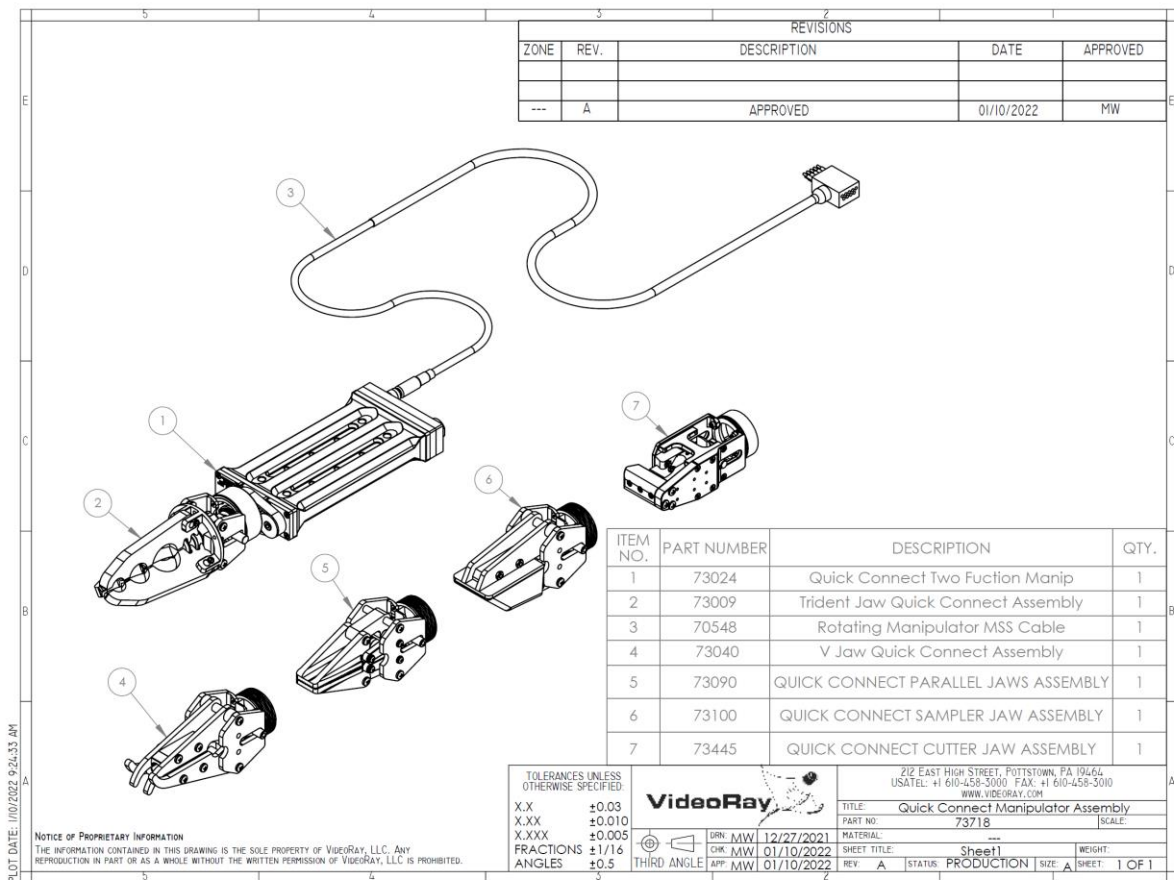
The manipulator bodies are Type III anodize rather than microlox. Eddify does not want to work with precision coating any longer.

While many parts were reused from the previous version, the new manipulator body and end-effectors are not backwards compatible. However mounting and mounting hardware remains the same.

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A new part number [73718] was given to the manipulator assembly (body + heads) and that replaced the older revision [70929] in the integration kit [70824]

Older revisions are still available, but at a longer lead time.



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4.0 Disposition of Material

- All current stock has been depleted.
- We can source older revisions of the manip and end-effectors as needed, but with longer (12 week est) leadtimes.

5.0 Action Items

Action	Department	Acknowledgement Initials
Update Epicor	Purchasing	aeg

6.0 Modified / Referenced Documents:

Document	Current Revision
3100311-A01 (eddyfi user manual)	A01

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7.0 Revision History

Date Revised (mm-dd-yyyy)	Location of Change (section, paragraph no., step no., etc.)	Description of Change Made	Name of Person making the Change
1/19/2021	All	Initial Release	Aeg