TEACH PENDANT		OFFLINE PROGRAMMING (OLP) SOFTWARE

Learning curve

TEACH PENDANT	OFFLINE PROGRAMMING (OLP) SOFTWARE
Requires robotics and coding experience	Simple workflow and easy to learn
Trial-and-error process to achieve desired results, even with experienced users	Includes easy-to-use optimization and error correction tools
Teach pendant and programming language unique to each robot brand	Little to no robotics or programming experience needed
Doesn't require computer proficiency	Uses same programming interface for all robot brands, eliminating the need to be familiar with multiple systems
	Requires the user to be comfortable using a computer

Complex shapes

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Hard-to-reach areas can be very problematic and time-consuming when programmed via teach pendant	Automatically optimizes paths to best avoid collisions and other robotic errors
Risk of collision between the tool or robot and the part	Solves a lot of issues when programming complex part profiles making it easy to program in hard-to-reach areas

Production style

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In low-mix, high-volume applications, this method offers excellent ROI. A single programming job can sustain production for a long time	In high-mix, low-volume applications, programming time is extremely impactful to margins. The ability to quickly and flexibly program more jobs greatly improves profitability

Repeatability

TEACH PENDANT	OFFLINE PROGRAMMING (OLP) SOFTWARE
Allows for "on-the-fly" adjustments for variations in parts or desired finishes	OLP software takes a CAD-to-path approach. The program is created based off the features of the CAD model
Subject to human error; nearly impossible to achieve the same results every time	Some OLP, like Robotmaster, gives users the ability to save the strategies and "recipes" used in a program library that can later be called upon or distributed across facilities
Unable to distribute program across many facilities, resulting not just in discrepancies within the facility but also varying results across multiple locations	