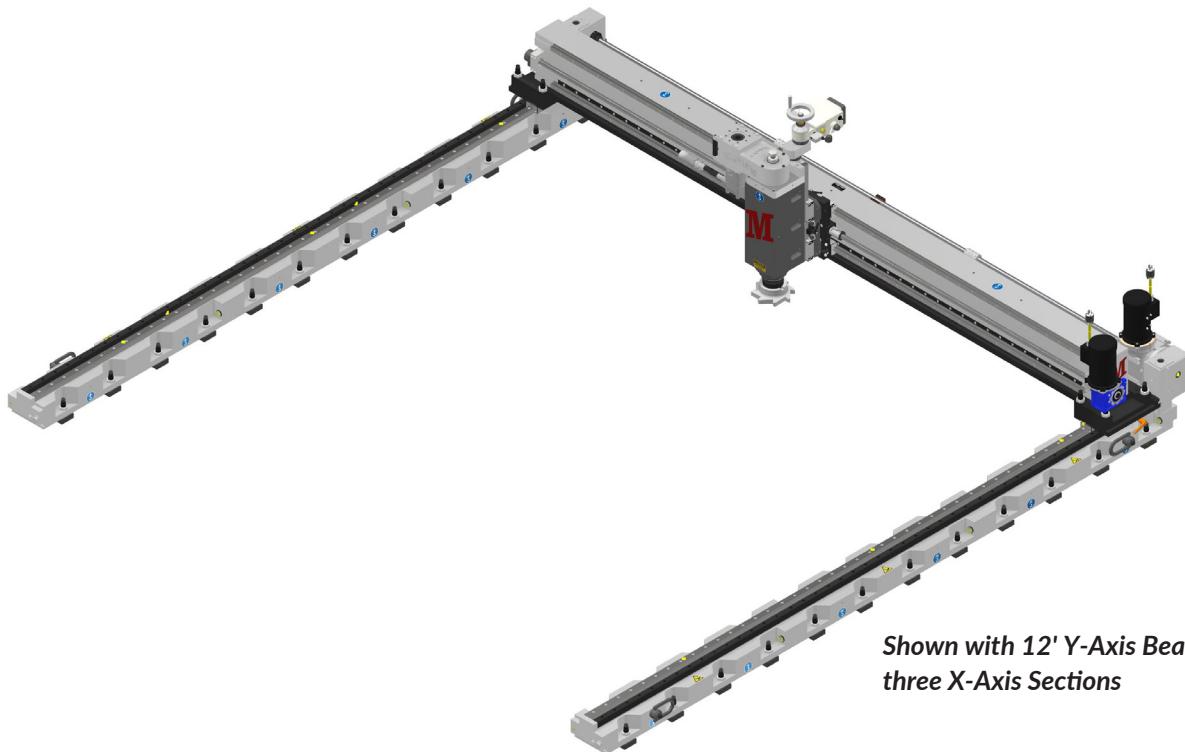


# MACTECH

# PGM-HD

PORTABLE GANTRY MILL - HEAVY DUTY

MACTECHONSITE.COM



Shown with 12' Y-Axis Beam and  
three X-Axis Sections

## PRODUCT DESCRIPTION

Save costly shop repairs with accurate, on-site milling, drilling and machining with an expandable X-axis reach. Adding or removing sections provides versatility to meet the demands of multiple varied setups. A powerful hydraulic drive motor makes smooth, clean and efficient cuts.

Mactech offers a fast response with the best technicians and support, short delivery times, high accuracy, and custom setups make Mactech's Portable Gantry Mill - Heavy Duty among the most versatile of on-site milling machines for your job.

## FEATURES

- MODULAR DESIGN ALLOWS FOR X-AXIS TO BE INCREASED IN 4' SECTIONS, AND Y-AXIS AVAILABLE IN 6', 9' AND 12'
- ADJUSTABLE JACKING SCREWS AND SUPPORT PLATES MAKE SETUP QUICK AND EASY
- LINEAR RAILS, PRECISION BALL SCREWS AND RIGID SETUP ENSURE ACCURATE MACHINING
- EASY TO USE: REMOTE X AND Y-AXIS MOTOR CONTROLS
- OPTIONAL Z-AXIS POWER FEED

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INFO@MACTECHONSITE.COM

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INFO@MACTECHOFFSHORE.COM

WORK HARD

WORK SAFE

WE BEFORE ME

WELCOME CHALLENGES

WOW THEM

### SPECIFICATIONS

#### X-AXIS:

Electric Feed Motor: 120V Input, 1/2 HP  
 Gear Reduction: 40:1  
 Feed Rate: 0 to 24.0 inches/minute

#### Y-AXIS:

Electric Feed Motor: 120V Input, 1/2 HP  
 Gear Reduction: 40:1  
 Feed Rate: 0 to 20.0 inches/minute

#### Z-AXIS:

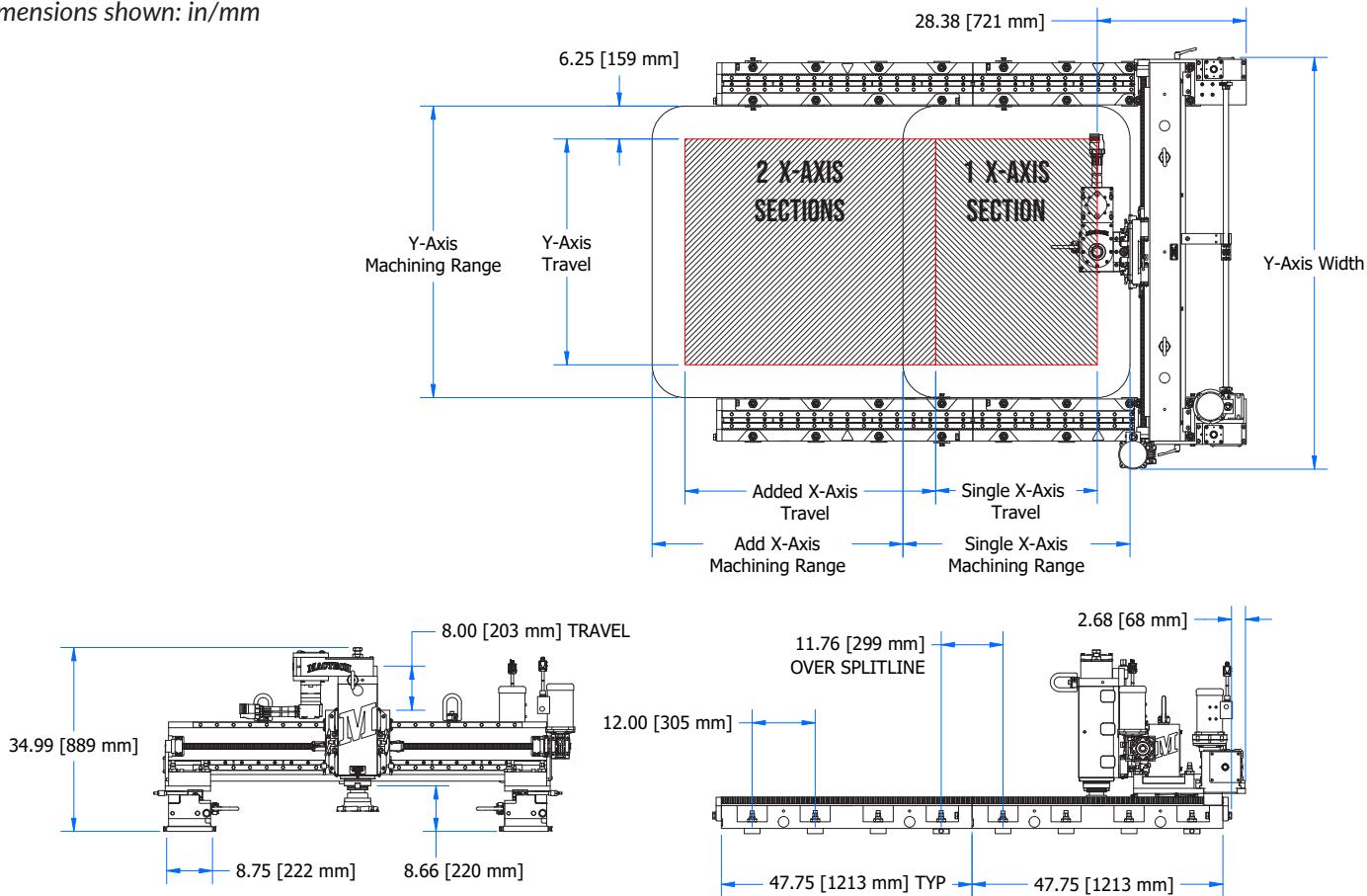
#50 NMTB Taper Shaft Spindle  
 Optional Electric Power Feed

#### SPINDLE MOTOR:

Hydraulic: 4.9 or 6.2ci, 800 RPM, 20 GPM  
 Electric: 110V or 220V Variable Speed  
*Electric drives may not be suitable for all tasks, please contact Mactech representative for advisement.*

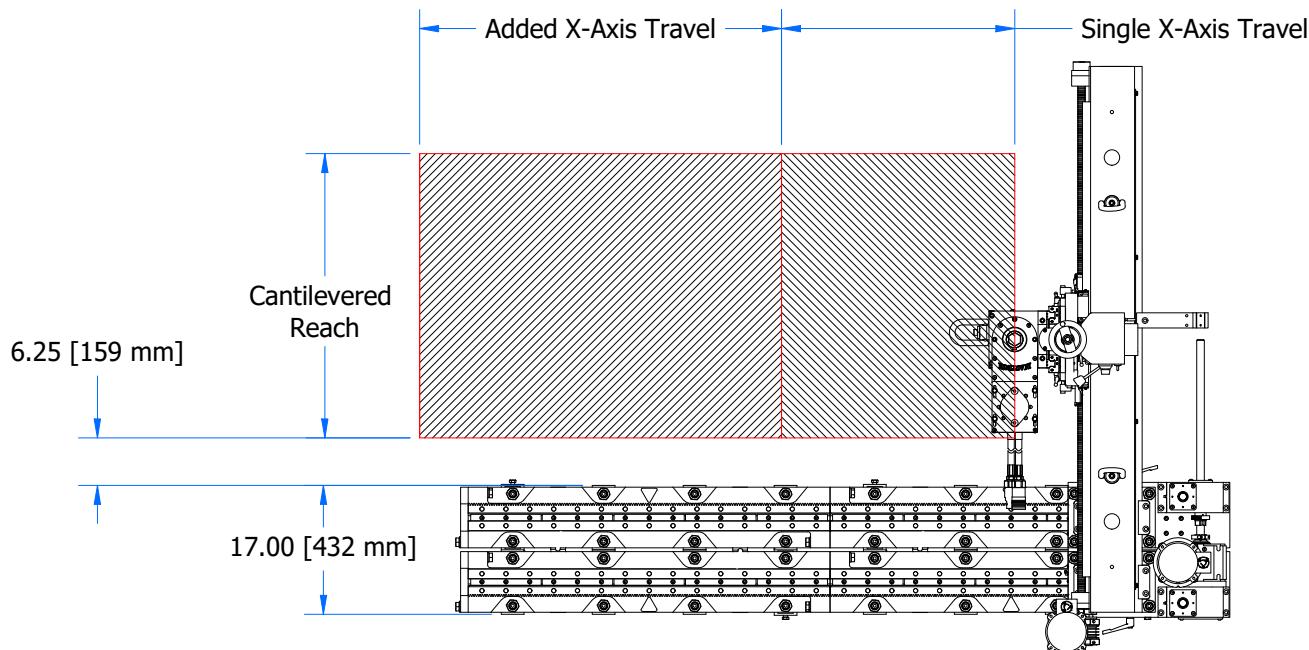
PGM - HD		Dimension (Width)	Travel	Machining Range	Cantilevered Reach	Weights
Y-Axis Beam(s)	6' Beam	78"/1981	43"/1092	55.5"/1409	37.5"/952	1884lb/854kg
	9' Beam	114"/2895	79"/2006	91.5"/2324	73.5"/1867	2233lb/1012kg
	12' Beam	146"/3708	115"/2921	127.5"/3238	109.5"/2781	2582lb/1171kg
		Dimension (Length)				
X-Axis Rail (Single)		47.75"/1213	30.75 /831	43.25"/1098	N/A	213lb/96kg (per)
X-Axis Rail (Each Additional)		47.75"/1213	47.75"/1213	47.75"/1213	N/A	213lb/96kg (per)
		Dimension (Height)				
Z-Axis		35"/889	8.6"/218	N/A	N/A	301lb/136kg

Dimensions shown: in/mm

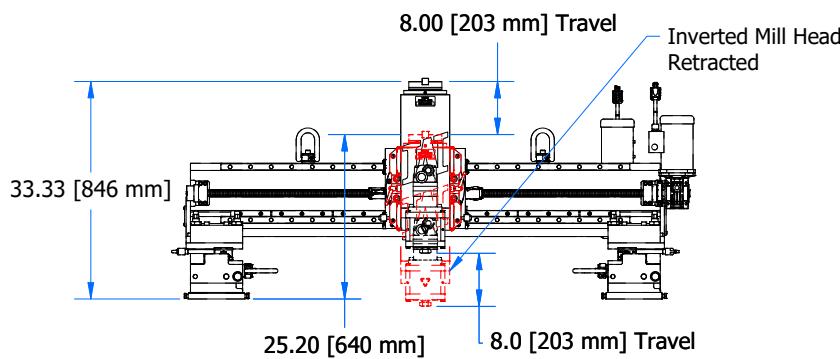


## CANTILEVER EXAMPLE

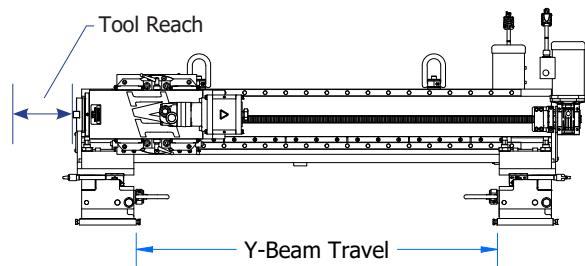
More variations possible depending on setup



## MILL HEAD ROTATION EXAMPLES



MILL HEAD INVERTED

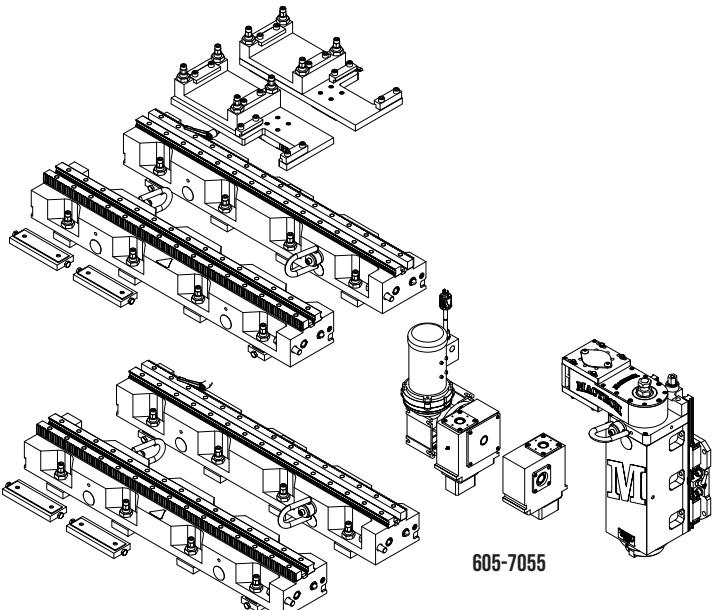


MILL HEAD HORIZONTAL

All dimensions and hydraulic requirements are for reference and may be subject to change without notice. Machine performance is subject to application and operator capability; please discuss your requirements directly with a Mactech sales representative. All information given and all sales made by Mactech Inc. are subject to their terms and conditions.

## X-AXIS STARTER KIT (REQUIRED)

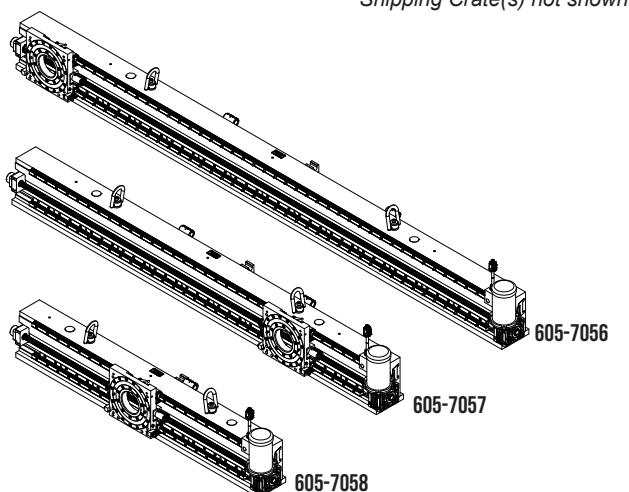
**605-7055** Contains: PGM-HD - 96" X-Axis Drive Kit W/Cat 50 Spindle & 8" Z-Axis (Four 4' X-Axis rail sections), PGM-HD Tool Kit, Adjustable Weld-On Brackets (2), Setup and Operation Manual, Drawing Package, Shipping Crate



## Y-AXIS BEAM PACKAGE OPTIONS (CHOOSE ONE)

Includes Z-Axis Mounting Plate, Rotary Drive Shaft, Electric Drive Assy. 120vac Input, Shipping Crate

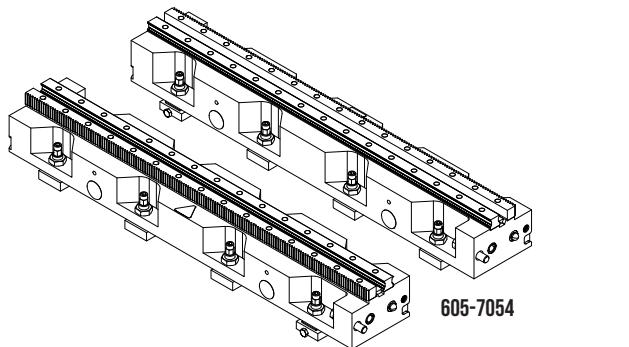
**605-7056** PGM-HD 12' - Y/Z-Axis Beam Package  
**605-7057** PGM-HD 9' - Y/Z-Axis Beam Package  
**605-7058** PGM-HD 6' - Y/Z-Axis Beam Package



## X-AXIS EXTENSION SECTIONS

Each Extension kit adds 48" of travel  
 Includes two 4' sections and Shipping Crate

**605-7054** PGM-HD Rail – 4' X-Axis Extension Kit



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## SPINDLE MOTOR OPTIONS (CHOOSE ONE)

### HYDRAULIC MOTOR OPTIONS

**600-6981** Hyd Drive - 4.9ci, 90-900 RPM, 2-20 GPM  
Recommended Up to 5" Face Mill

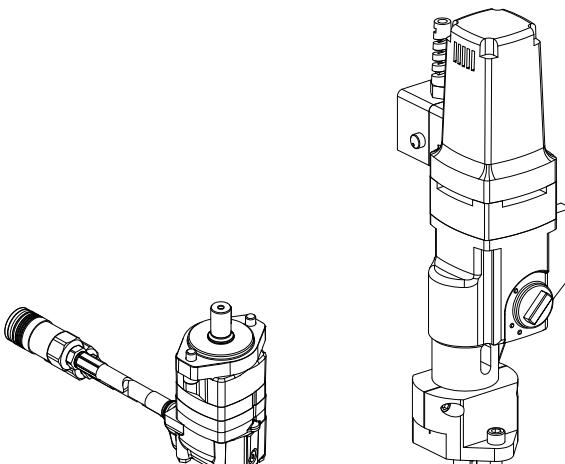
**600-7058** Hyd Drive - 6.2ci, 60-740 RPM, 2-20GPM  
Recommended for 5-8" Face Mills

### ELECTRIC MOTOR OPTIONS

*Electric drives may not be suitable for all tasks, please contact Mactech representative for advisement.*

**600-6655** 2200w, 0-570RPM Variable, 4 Speed, Reversible, 220V

**600-6657** 2200w, 0-570RPM Variable, 4 Speed, Reversible, 110V



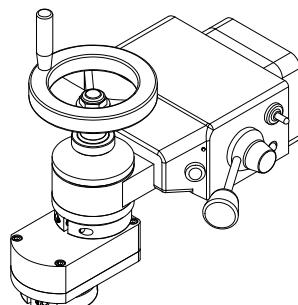
600-6981 / 600-7058

600-6655 / 600-6657

## Z-AXIS SERVO MOTOR (OPTIONAL)

### Power Feed Option

**600-6983** Servo Feed Drive – Mgm 2:1 110V



600-6983

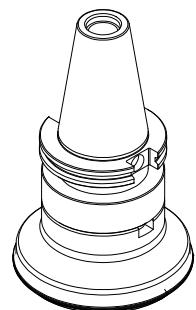
## CUTTER AND FACE MILL OPTIONS

Kits come with the holder, the cutter, 10 inserts, 5 spare screws, and insert tool.

**445-1119** 5" 12 Flt 45° Face Mill With Cat50 Assembly

**445-1122** 6" 10 Flt 45° Face Mill With Cat50 Assembly

**445-1120** 8" 12 Flt 45° Face Mill With Cat50 Assembly



445-1119

## TOOLING AND INSERT OPTIONS

### Available Cutters, Face Mills, and Tool Holders

**445-2013** Face Mill Insert SEET13T33AGSR-L ACP100 Light Cutting Steel

**445-2014** Face Mill Insert SEMT13T3AGSR-G ACP200 General Purpose Steel

**445-2019** Face Mill Insert SEET13T3AGFR-L H1 Aluminum



445-2014

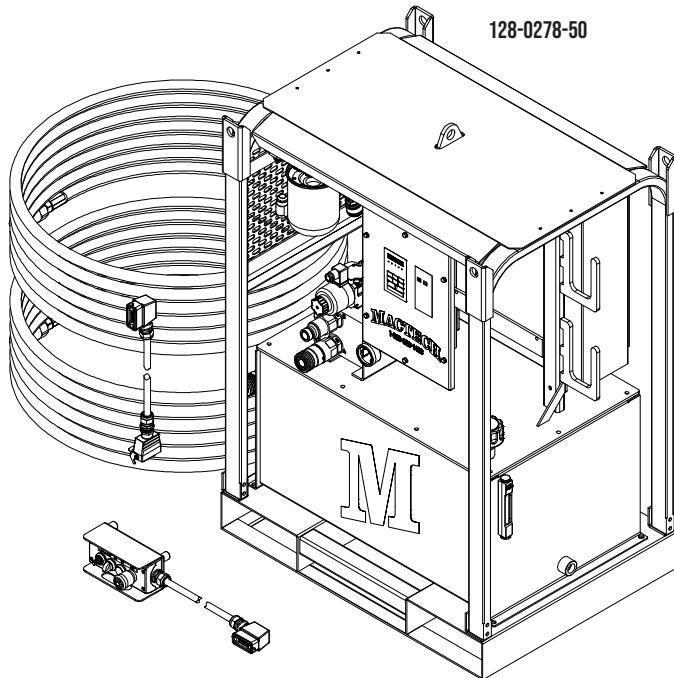
*Other material bits have same form factor*

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## HYDRAULIC POWER SUPPLY OPTION

Includes: HYD Hoses,  $\frac{3}{4}$ " X 50',  $\frac{3}{4}$ " ISO 16028 Flat Face Quick Disconnects

**128-0278-50** HPS, 20HP 480V, 16 GPM @ 1500



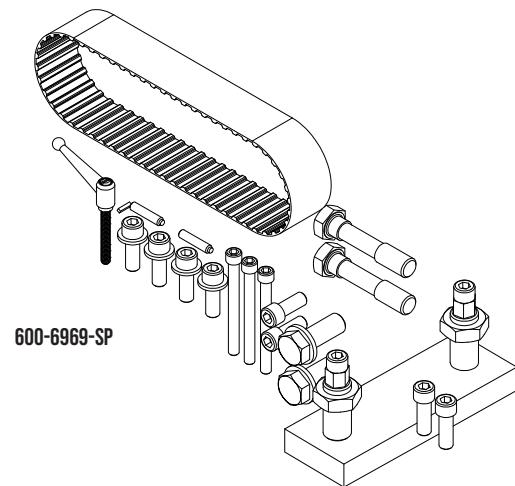
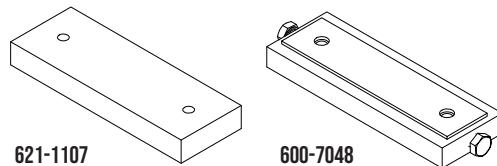
## HAND TOOL KIT (INCLUDED IN X-AXIS STARTER KIT)

Includes: Tool Box, Combination Wrenches, 13pc Long Arm Allen Set, T-Handle Allen Key, 3/8" Ratchet Drive Set, Dead Blow Hammer, Aligning Pry Bar

**600-6969-TK** PGM-HD Tool Kit

## CONSUMABLE ITEMS

<b>621-1107</b>	Weld-On Mill Mtg Bracket - Mgm
<b>600-7048</b>	X Adjustable Weld On Bracket Assy - Mgm
<b>452-0838</b>	Chip Guard - Flexible-Arm, 12 X 12, 12" Magnet Arm
<b>600-6969-SP</b>	PGM-HD Spares Kit



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