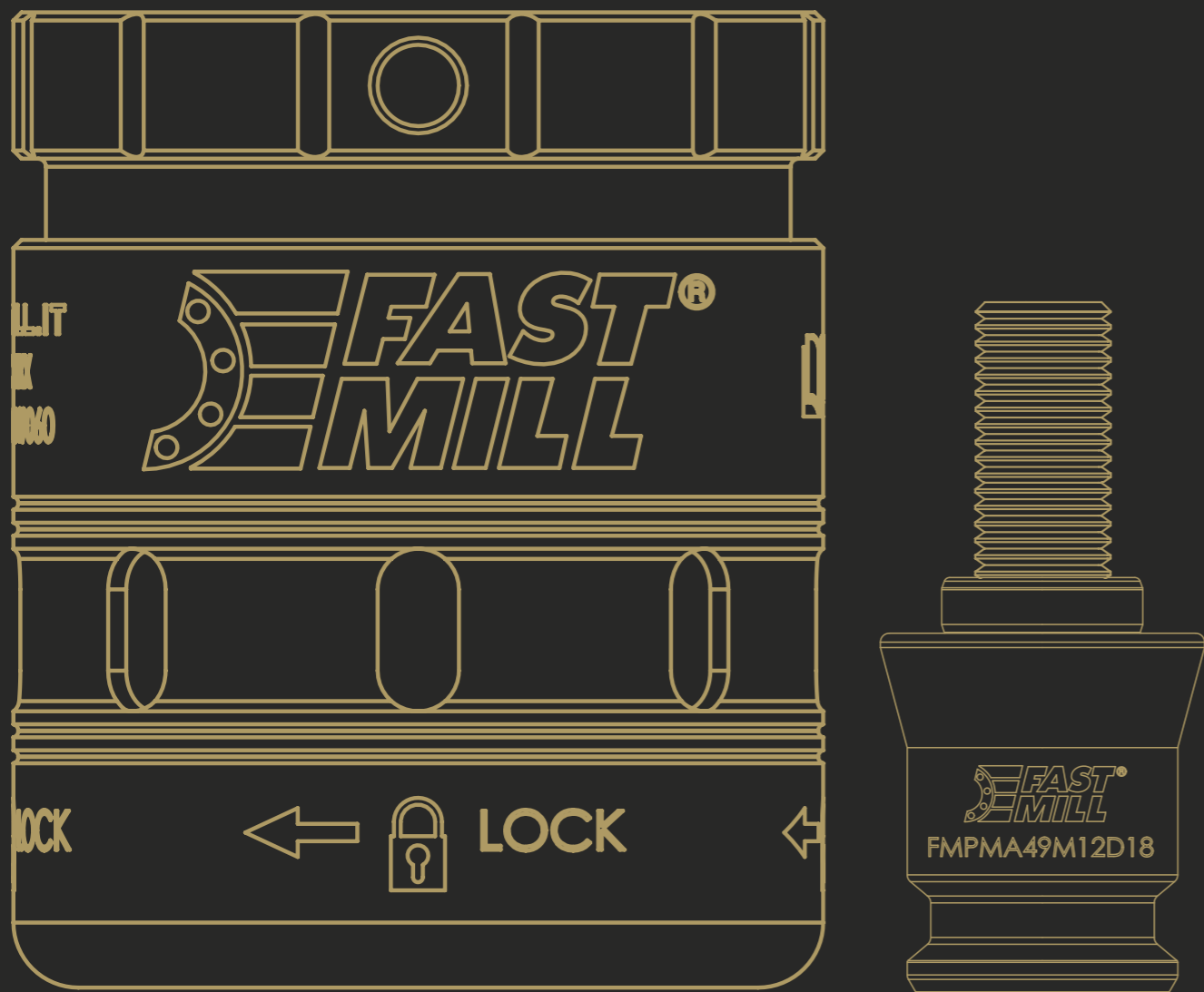


PLATES AND BUSHES
MODULES AND PINS D90
MODULES AND PINS D49
SPACERS
RISERS
THIRD POINT
MAGNETIC
VERTICAL CLAMPING
MINI RANGE
FASTMILL ZERO
CLAMPS

MODULES AND PINS D49



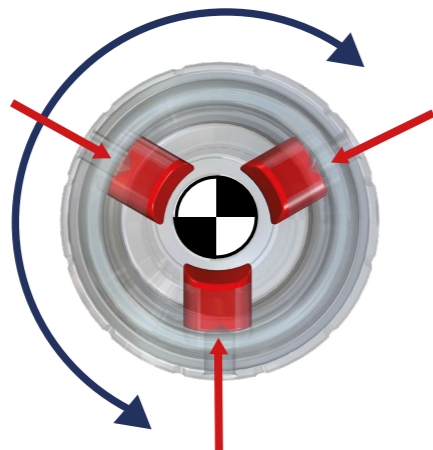
CLAMPS
FASTMILL ZERO
MINI RANGE
VERTICAL CLAMPING
MAGNETIC
THIRD POINT
RISERS
SPACERS
MODULES AND PINS D49
MODULES AND PINS D90
PLATES AND BUSHES

MAIN FEATURES

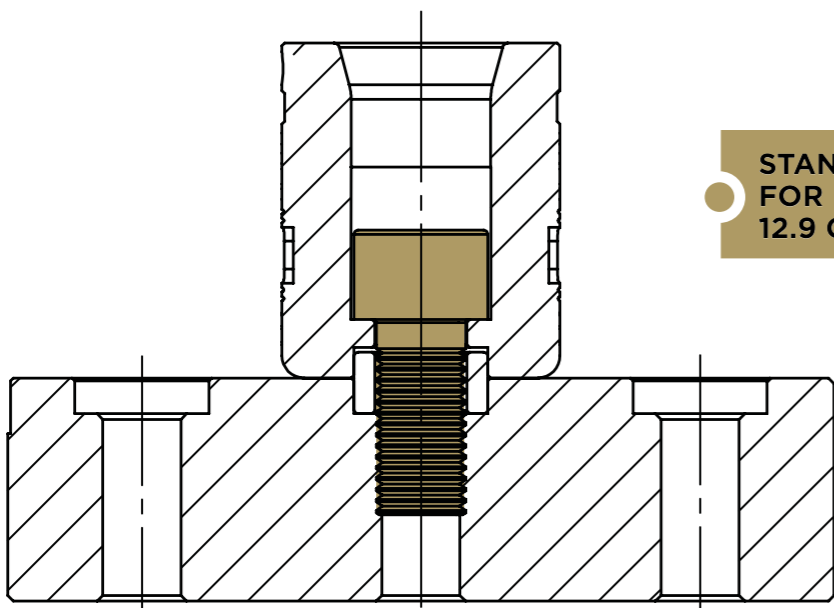
360° POSITIONING / NO NEED TO ORIENT THE SYSTEM



- STAINLESS STEEL
- HARDENED BODY
- 70Nm LOCKING
- SAFETY UNLOCK



- ULTRA PRECISE ZERO POINT
- AUTO-CENTERING SYSTEM



- STANDARD SCREW FOR PLATE FIXING 12.9 GRADE

MAIN FEATURES

360° POSITIONING / NO NEED TO ORIENT THE SYSTEM



- STRONG SOLID BODY DESIGN - HARDENED STEEL



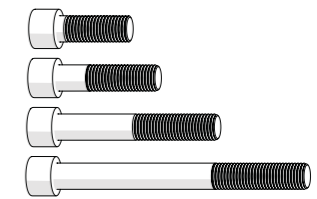
- STANDARD SET SCREW (12.9 GRADE) FOR WORKPIECE FIXING
- QUICK AND LOW COST CHANGEOVER FOR DIFFERENT HEIGHT SETTINGS BY CHANGING THE SCREW LENGTH



- WITHSTANDS SHOCK WITHOUT COMPROMISING FUNCTIONALITY
- ALLOW THE WORKPIECE TO REST ON THE FLOOR

TECHNICAL TIPS

The whole range of FASTMILL® modules use standard 12.9 (DIN912) screws from M6 to M10 or higher of different heights for the connection of the pieces, to the pallets and to the spacers.



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PATENTED

PATENTED



SINGLE MODULE Ø49

Patented by FastMill, this module allows the user to combine extreme ease of use with high focus on to medium machining, all while maintaining maximum positioning precision. Also perfect for EDM applications and in aggressive environments thanks to stainless material.

CODE	DESCRIPTION	HEIGHT	Ø	FIXING SCREW
FMSSS0049060	Single module Ø49	60 (2,36")	49,8 (1,96")	M16

CODE	DESCRIPTION	DIMENSION	TORQUE	WEIGHT
FM93000048KIT	Preset torque wrench 70 Nm	280 (11,02")	70 Nm	0,5 (11 lbs)
FM9300048T1	Torque wrench insert			0,1 (2 lbs)

PRESET TORQUE WRENCH 70 Nm
FM93000048KIT

TORQUE WRENCH INSERT
FM9300048T1

SINGLE MODULES Ø49 SETUP EXAMPLE

Related bushes at pag.11

Related pins at pag.56

SINGLE MODULES Ø49 COMBINATION EXAMPLE

MALE PIN
Code FMPMA49M16D24

STANDARD 12.9 (DIN912) SCREW
Code VTCEI M16x60

BUSH
Code FM46190924

SINGLE MODULE Ø49 (1,96")
Code FMMSSS0049060

PLATE
Code FM46195202

SINGLE MODULES Ø49 COMBINATION EXAMPLE



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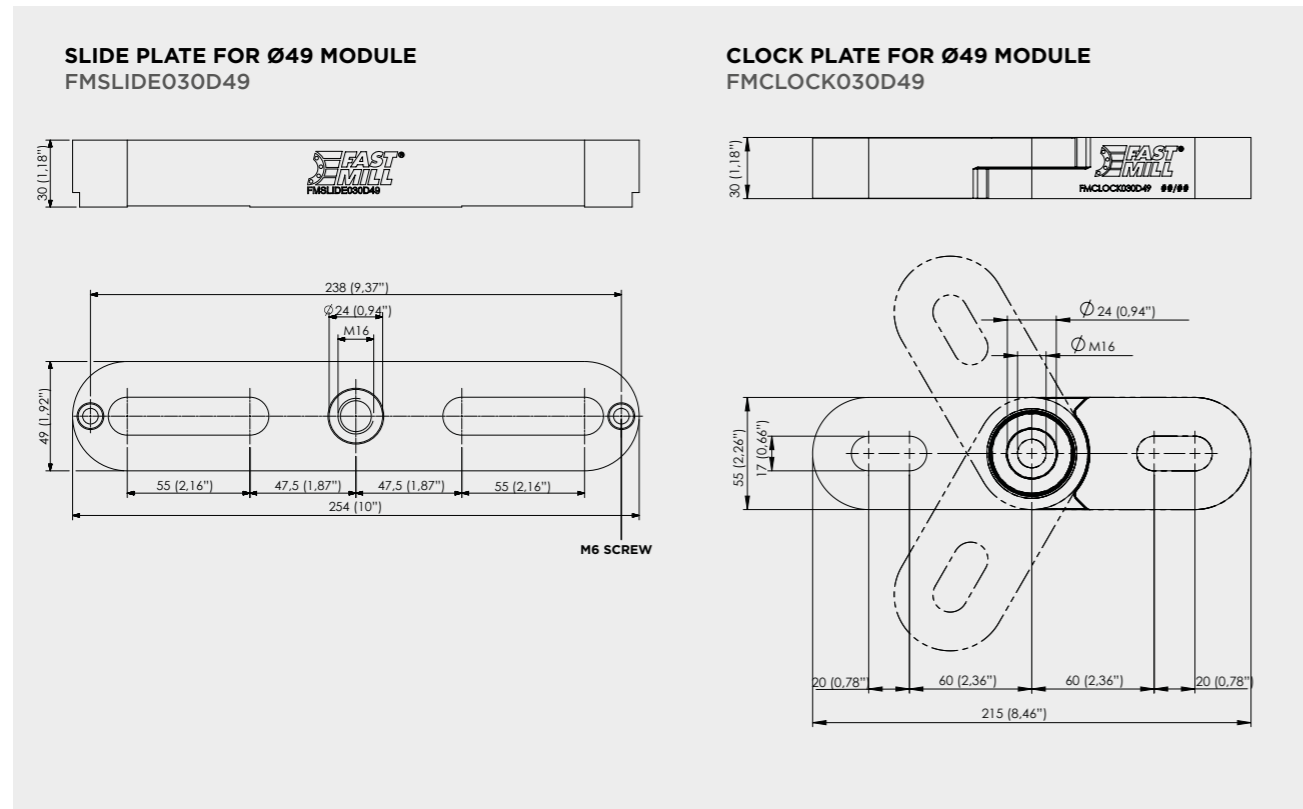
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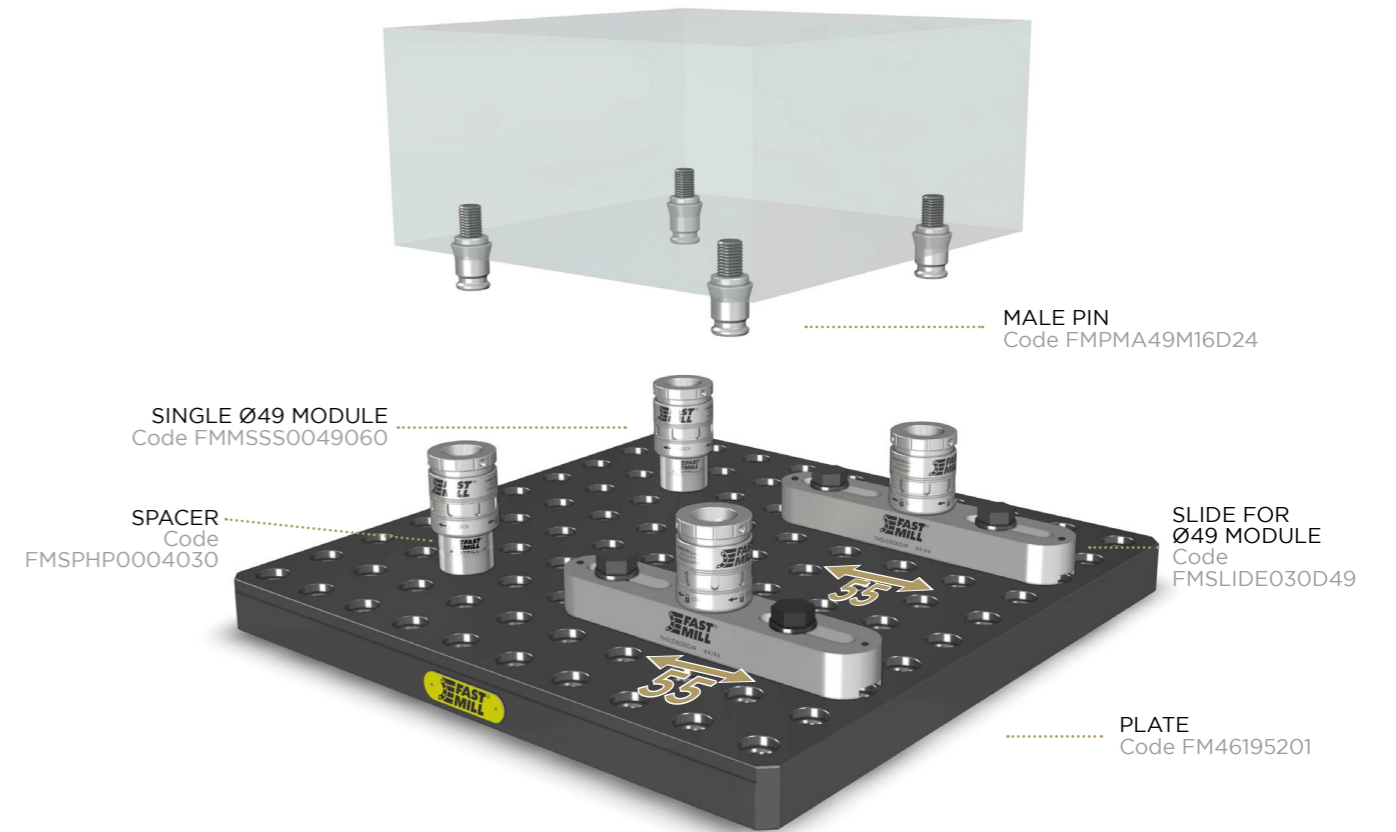
**SLIDE PLATE FOR Ø49 MODULE
CLOCK PLATE FOR Ø49 MODULE**

The FastMill slide and clock solutions for D49 module allow the fixing on the plate grid of a component on which it is not possible to maintain a drilling and counterbore at 50mm pitch: Maximum clamping flexibility and possibility of using existing holes on the workpiece.

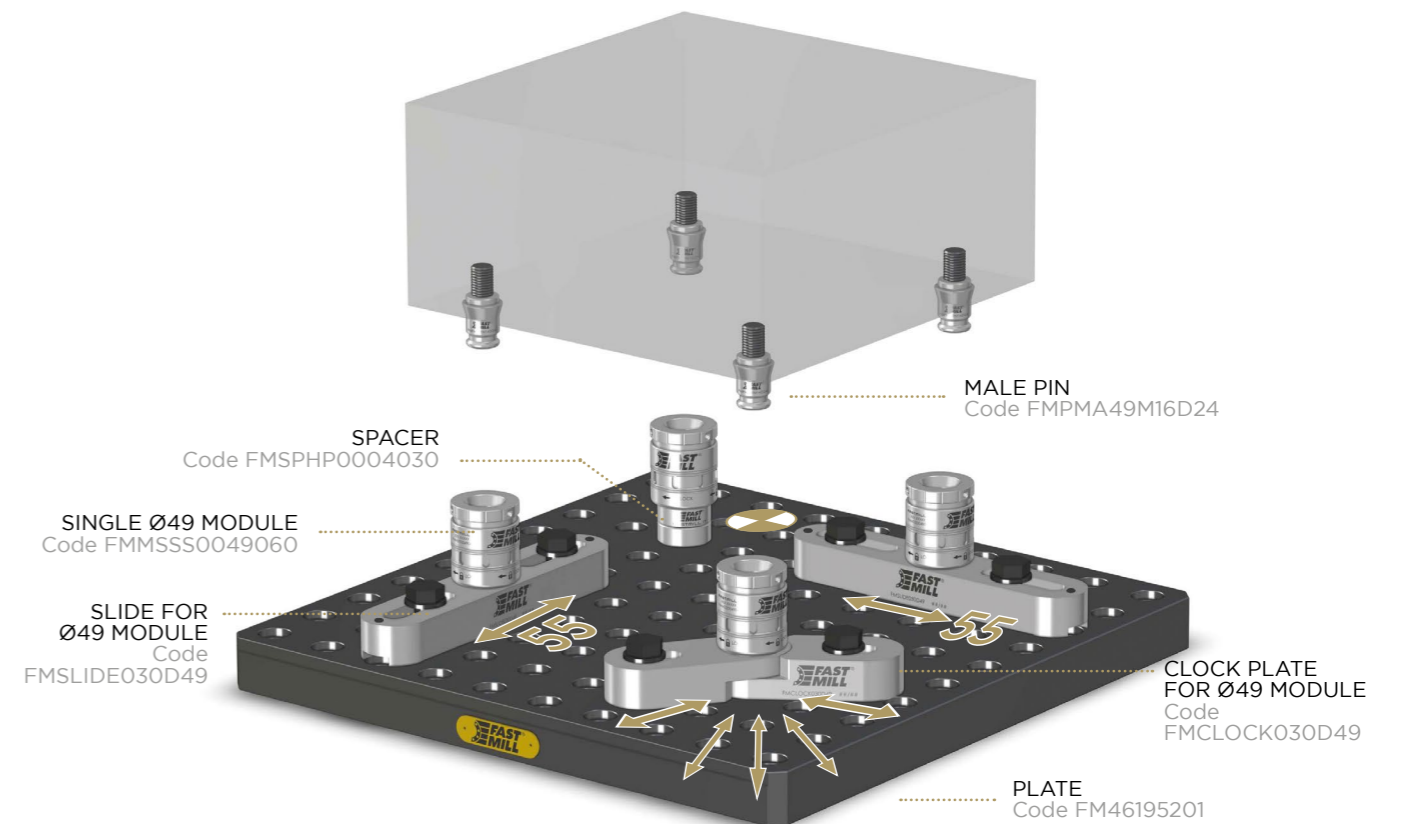
CODE	DESCRIPTION	DIMENSION	HEIGHT	WEIGHT
FMSLIDE030D49	Slide plate for Ø49 module	254x49 (10"x1,92")	30 (1,18")	2,0 (4,40 lbs)
FMCLOCK030D49	Clock plate for Ø49 module	215x55 (8,46"x2,16")	30 (1,18")	2,2 (4,85 lbs)



SETUP 2 ZERO POINTS / 2 SLIDE POINTS



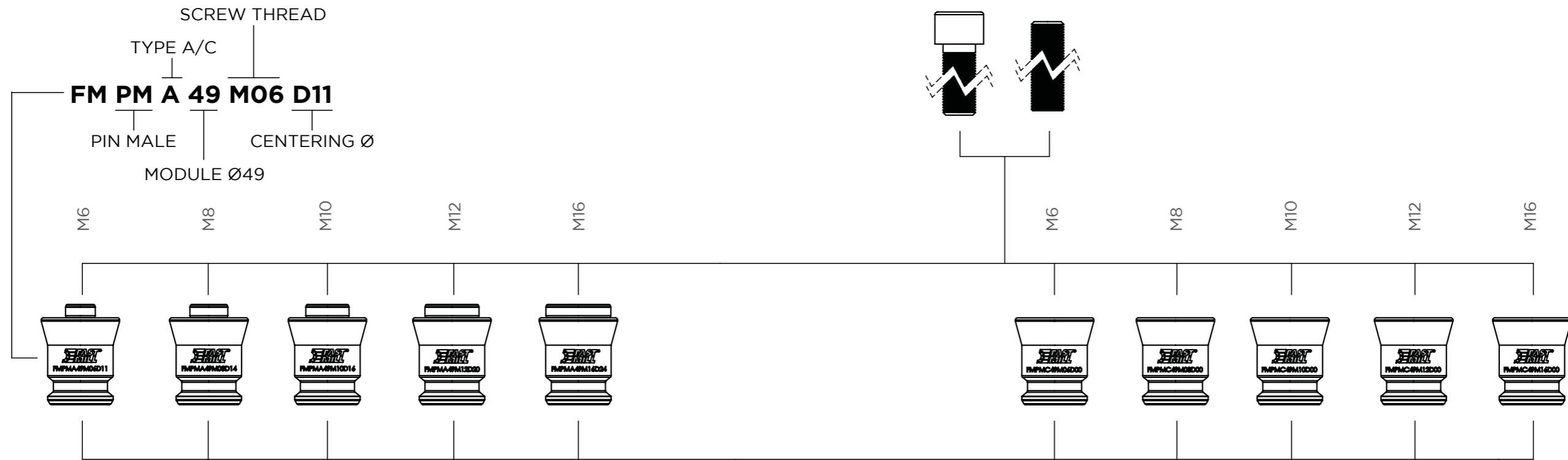
SETUP 1 ZERO POINT / 3 FREE POINTS



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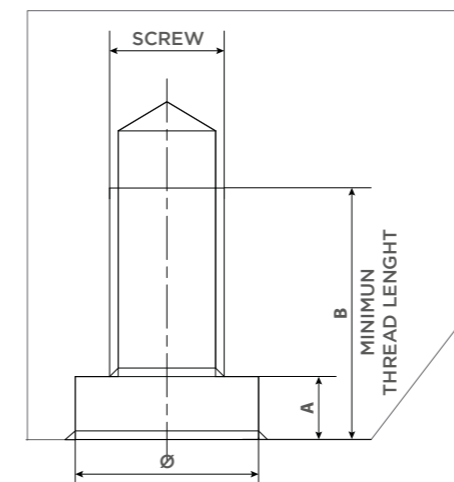
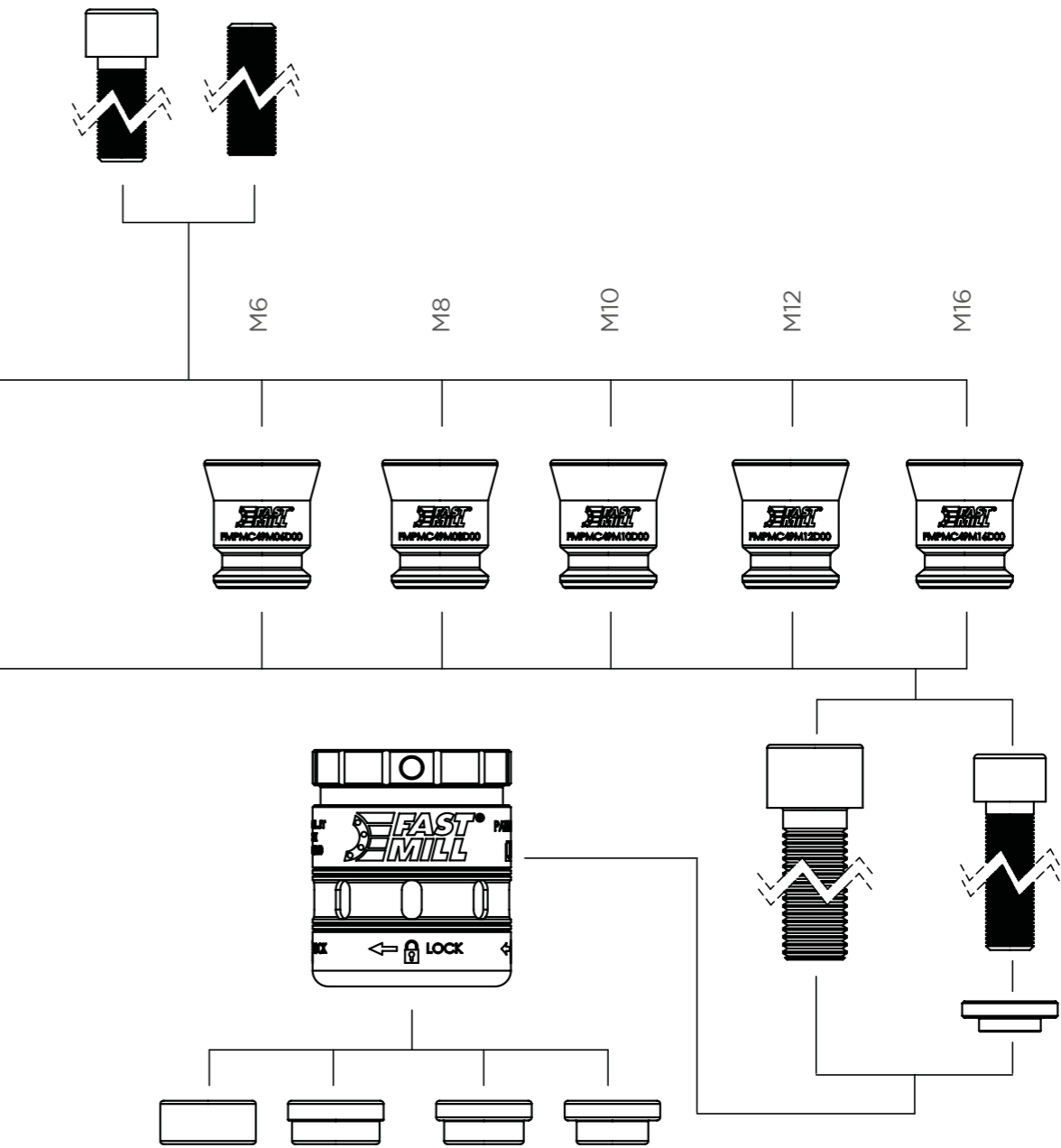
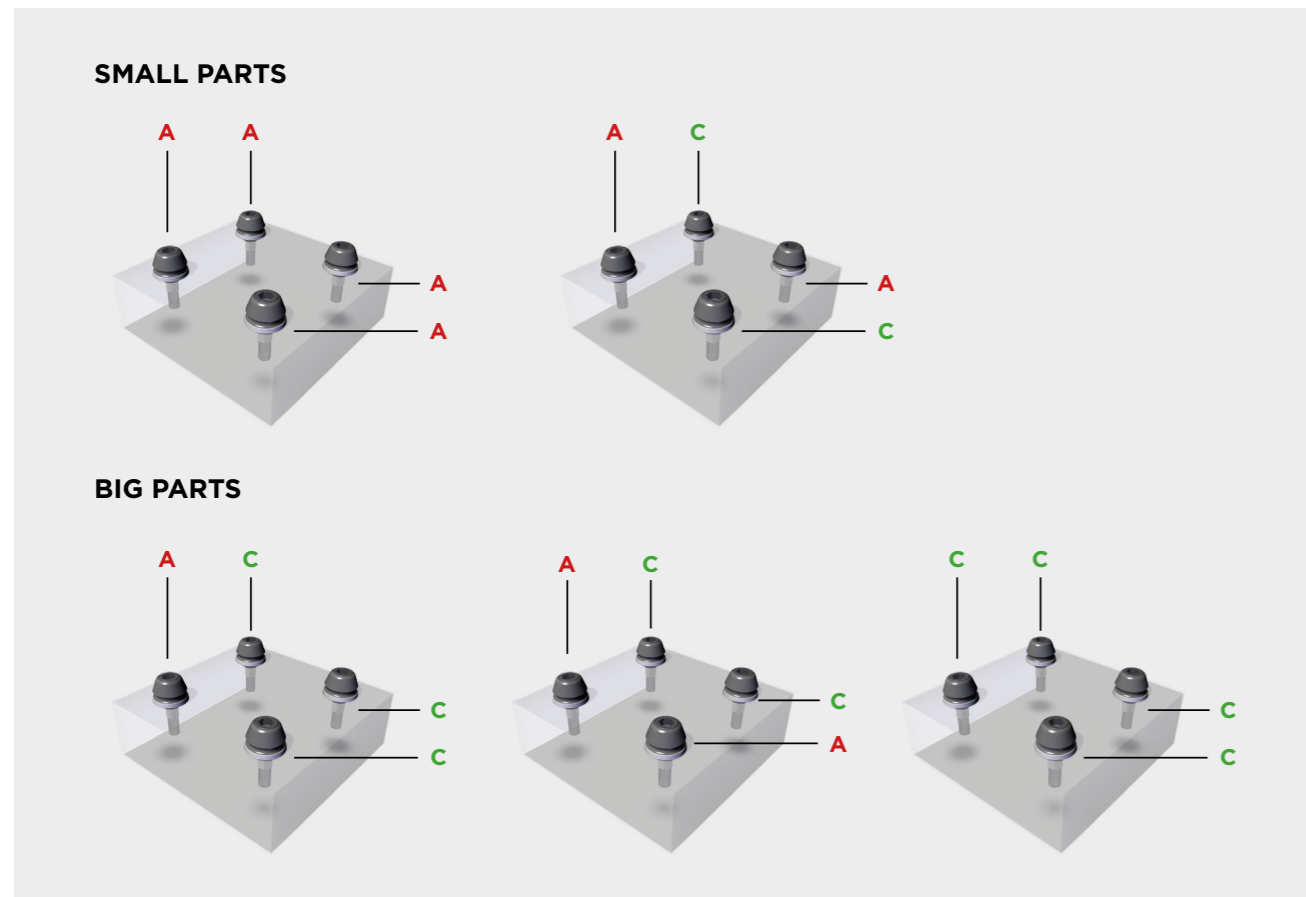
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SINGLE MODULE Ø49 ASSEMBLY EXAMPLE



TECHNICAL INFORMATION

Clamping and positioning of fixture and/or workpiece are achieved through the clamping pins. Type A is used for centering and clamping, type C only for clamping.



STANDARD AND MINI RANGE WORKPIECE PREPARATION

SCREW	Ø	A	B (STEEL)	B (CAST IRON/ALLOY)
M6	10-11 mm H6	7 mm	16 mm	20 mm
M8	12-14 mm H6	7 mm	20 mm	27 mm
M10	14-16 mm H6	7 mm	22 mm	29 mm
M12	18-20 mm H6	7 mm	26 mm	32 mm
M12 *	18-20 mm H6	9,5 mm	26 mm	32 mm
M16	22-24 mm H6	7 mm	32 mm	40 mm
M24	34-36 mm H6	10 mm	48 mm	60 mm

* For FMZ pin.

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PIN FOR SINGLE MODULE Ø49

Pins for D49 modules are made of hardened stainless steel, in sizes from M6 to M16 with counterbore from D10 to D24. They use class 12.9 screw sets, easy to replace and change the length in order to adapt to any clamping setup. Available type A for clamping and positioning and type C for clamping with a slight freedom in positioning.

A = CENTERING AND CLAMPING **C = CLAMPING**

M6 PIN FOR SINGLE MODULE Ø49

CODE	DESCRIPTION	M	Ø	TYPE
FMPMA49M06D10	Pin	M6	10 (0,39")	A
FMPMC49M06D10	Pin	M6	10 (0,39")	C
FMPMA49M06D11	Pin	M6	11 (0,43")	A
FMPMC49M06D11	Pin	M6	11 (0,43")	C
FMPMC49M06D00	Pin	M6	-	C

M8 PIN FOR SINGLE MODULE Ø49

CODE	DESCRIPTION	M	Ø	TYPE
FMPMA49M08D12	Pin	M8	12 (0,47")	A
FMPMC49M08D12	Pin	M8	12 (0,47")	C
FMPMA49M08D14	Pin	M8	14 (0,55")	A
FMPMC49M08D14	Pin	M8	14 (0,55")	C
FMPMC49M08D00	Pin	M8	-	C

M10 PIN FOR SINGLE MODULE Ø49

CODE	DESCRIPTION	M	Ø	TYPE
FMPMA49M10D14	Pin	M10	14 (0,55")	A
FMPMC49M10D14	Pin	M10	14 (0,55")	C
FMPMA49M10D16	Pin	M10	16 (0,62")	A
FMPMC49M10D16	Pin	M10	16 (0,62")	C
FMPMC49M10D00	Pin	M10	-	C

M12 PIN FOR SINGLE MODULE Ø49

CODE	DESCRIPTION	M	Ø	TYPE
FMPMA49M12D18	Pin	M12	18 (0,70")	A
FMPMC49M12D18	Pin	M12	18 (0,70")	C
FMPMA49M12D20	Pin	M12	20 (0,78")	A
FMPMC49M12D20	Pin	M12	20 (0,78")	C
FMPMC49M12D00	Pin	M12	-	C

M16 PIN FOR SINGLE MODULE Ø49

CODE	DESCRIPTION	M	Ø	TYPE
FMPMA49M16D22	Pin	M16	22 (0,86")	A
FMPMC49M16D22	Pin	M16	22 (0,86")	C
FMPMA49M16D24	Pin	M16	24 (0,94")	A
FMPMC49M16D24	Pin	M16	24 (0,94")	C
FMPMC49M16D00	Pin	M16	-	C

