

CLAMPS

FASTMILL
ZERO

MINI RANGE

VERTICAL
CLAMPING

MAGNETIC

THIRD POINT

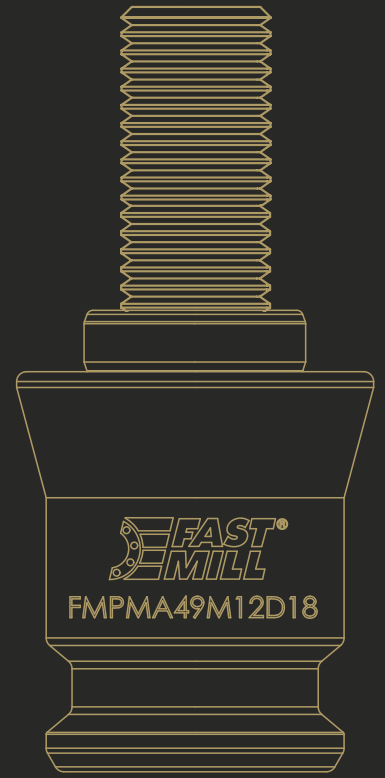
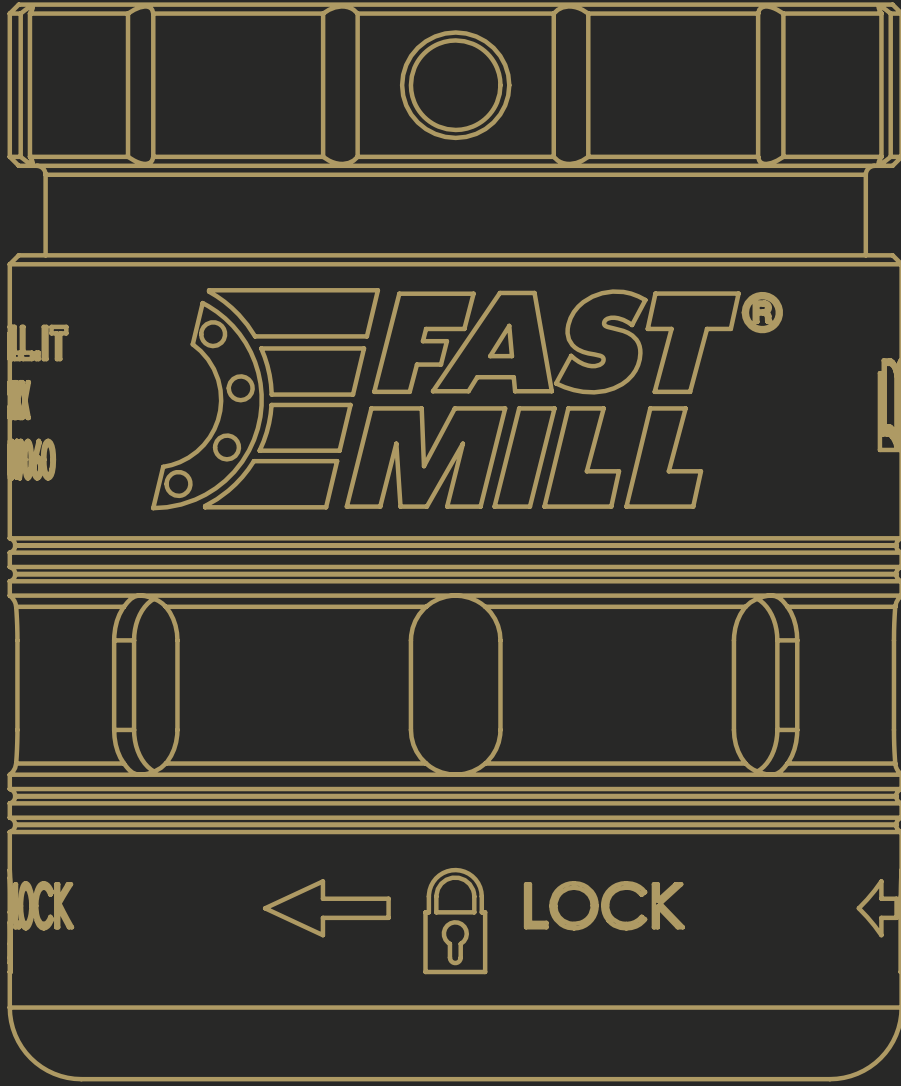
RISERS

SPACERS

MODULES
AND PINS D49

MODULES
AND PINS D90

PLATES
AND BUSHES



MODULES AND PINS D49

MAIN FEATURES

360° POSITIONING / NO NEED TO ORIENT THE SYSTEM

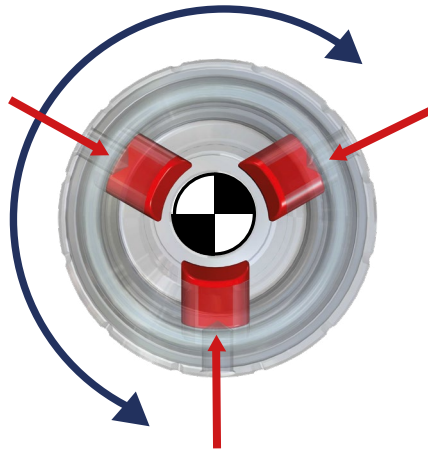


STAINLESS STEEL

HARDENED BODY

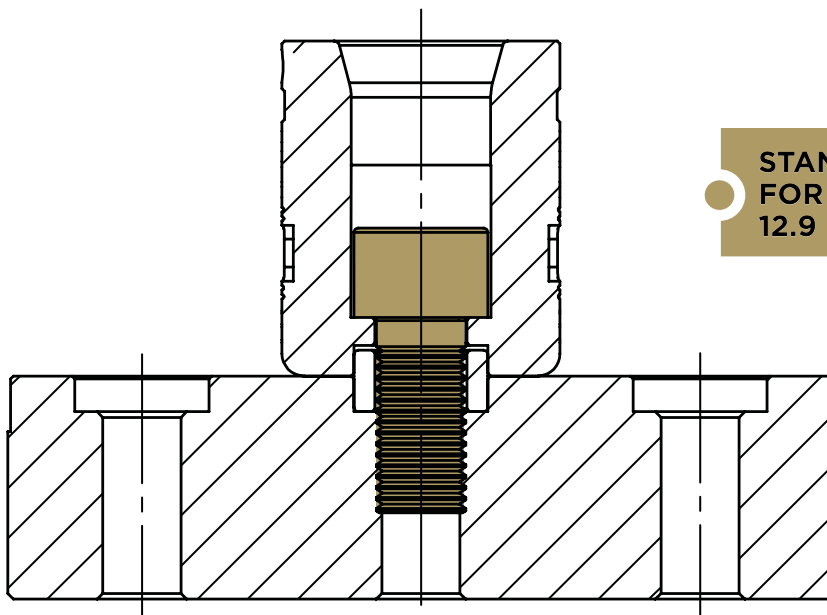
70Nm LOCKING

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

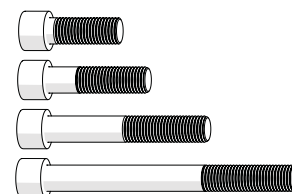


WITHSTANDS SHOCK WITHOUT COMPROMISING FUNCTIONALITY

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.



PATENTED

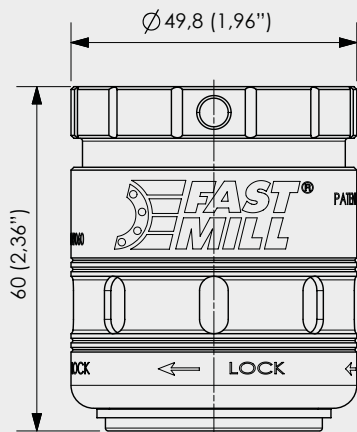


SINGLE MODULE Ø49

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.

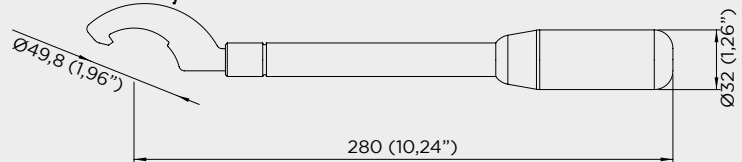
CODE	DESCRIPTION	HEIGHT	Ø	FIXING SCREW
FMMSSS0049060	Single module Ø49	60 (2,36")	49,8 (1,96")	M16

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)

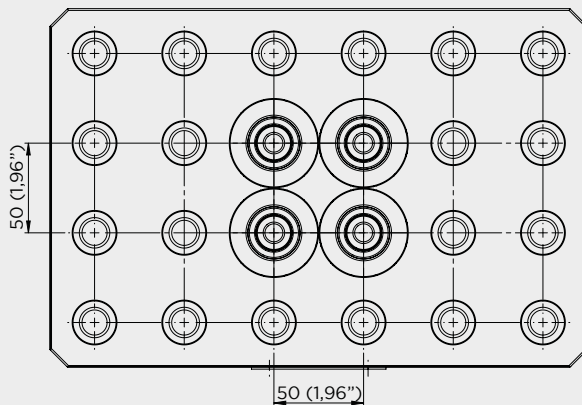
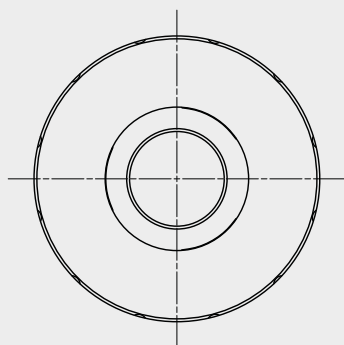




PRESET TORQUE WRENCH 70 Nm FM93000048KIT

TORQUE WRENCH INSERT FM9300048T1



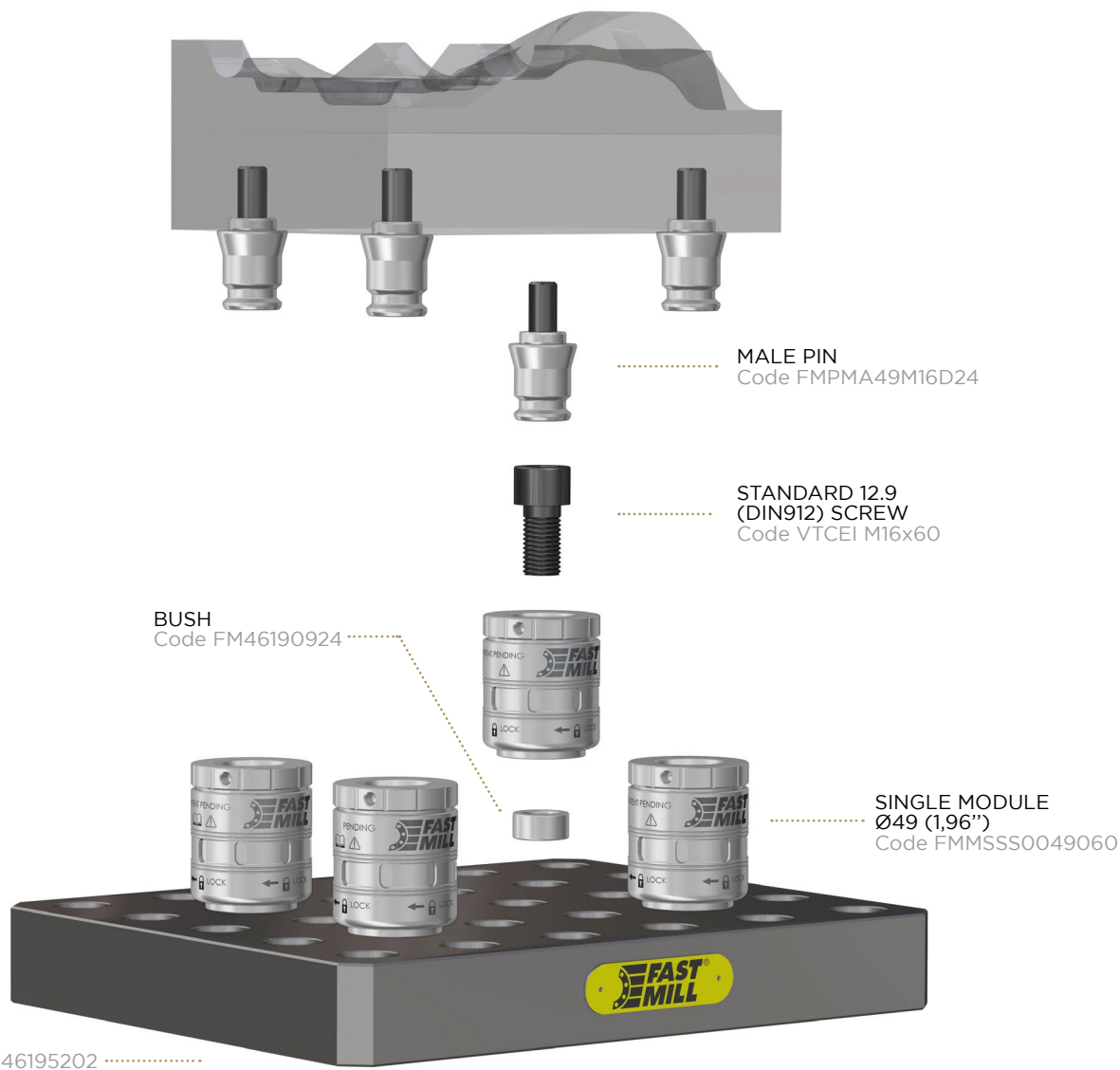
SINGLE MODULES Ø49 SETUP EXAMPLE



-  Related bushes at pag.11
-  Related pins at pag.56

PATENTED

SINGLE MODULES Ø49 COMBINATION EXAMPLE



SINGLE MODULES Ø49 COMBINATION EXAMPLE

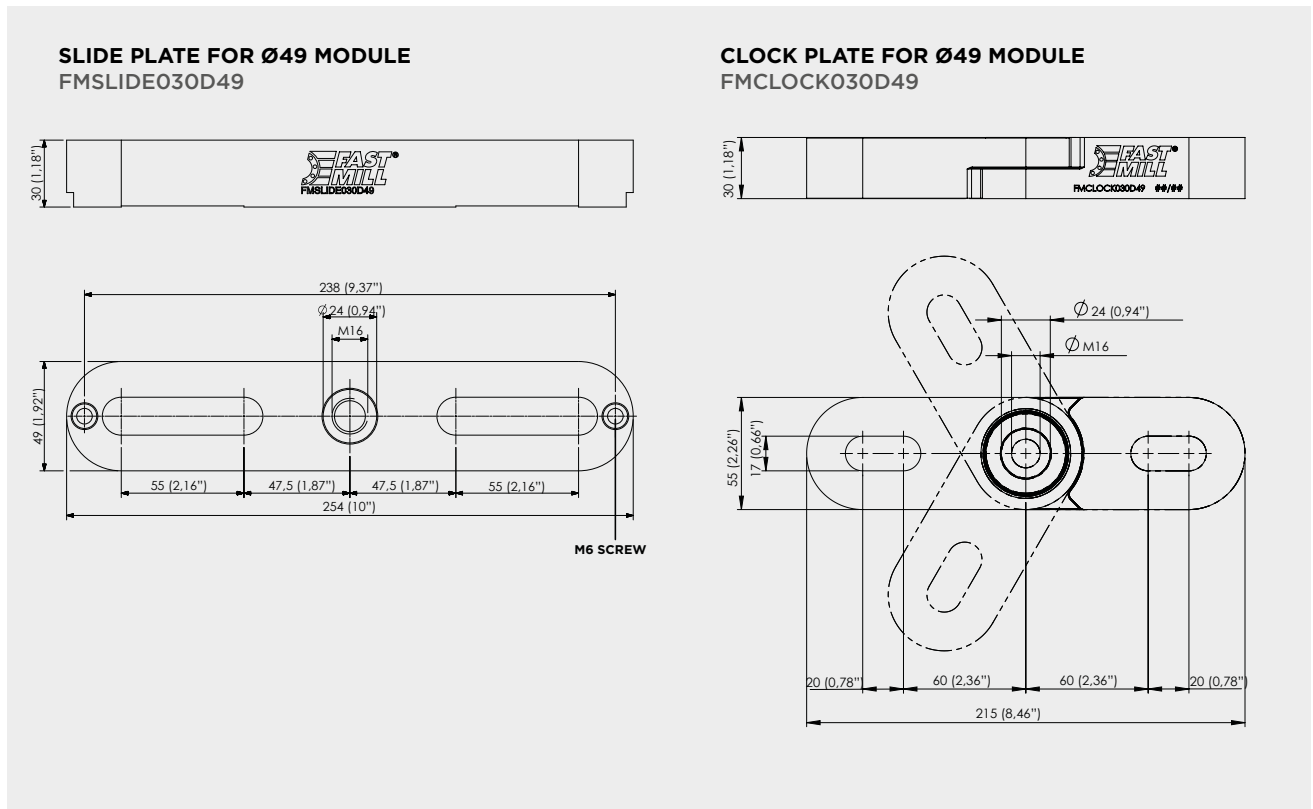


SLIDE PLATE FOR Ø49 MODULE CLOCK PLATE FOR Ø49 MODULE

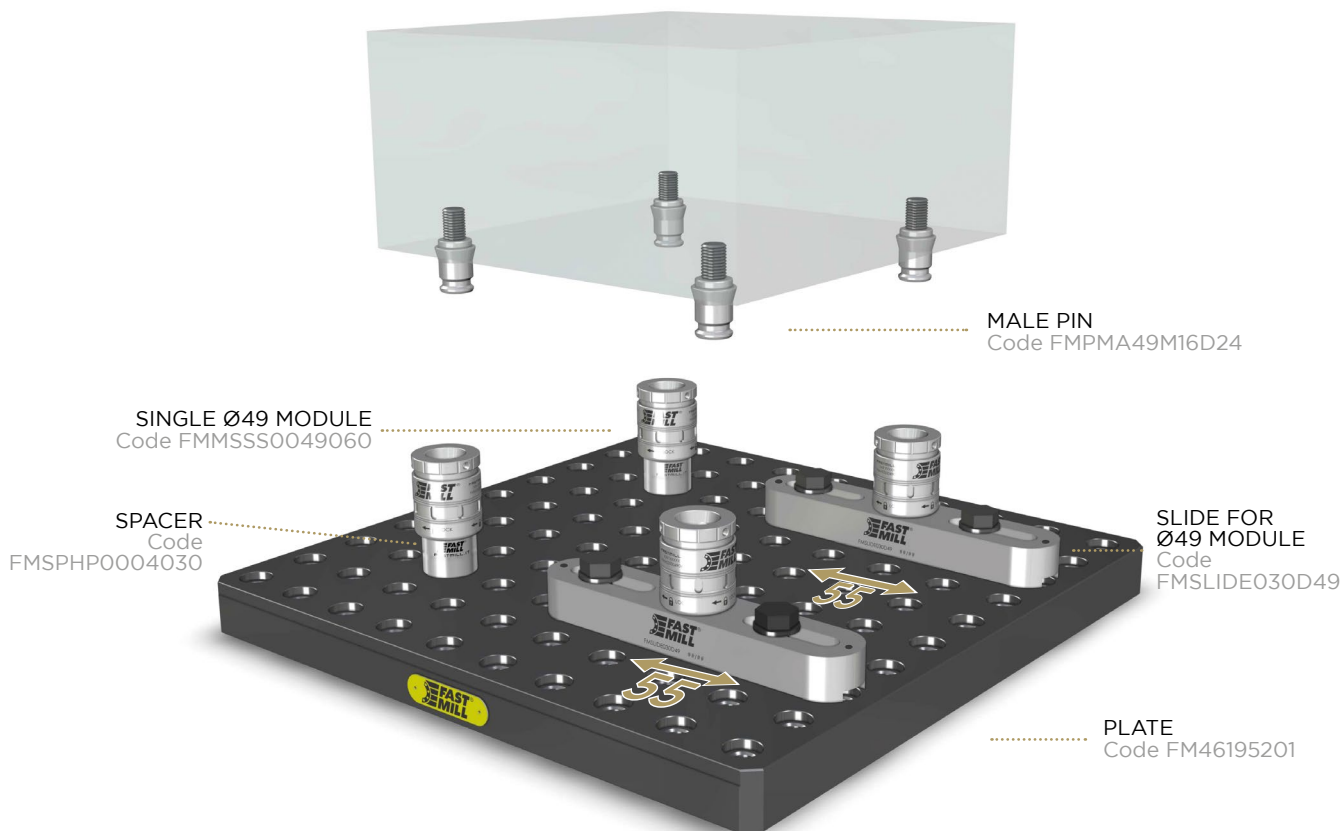
The FastMill slide and clock solutions for D49 module allow the fixing on the plate grid of a component on which it is not possible to maintain a drilling and counterbore at 50mm pitch: Maximum clamping flexibility and possibility of using existing holes on the workpiece.



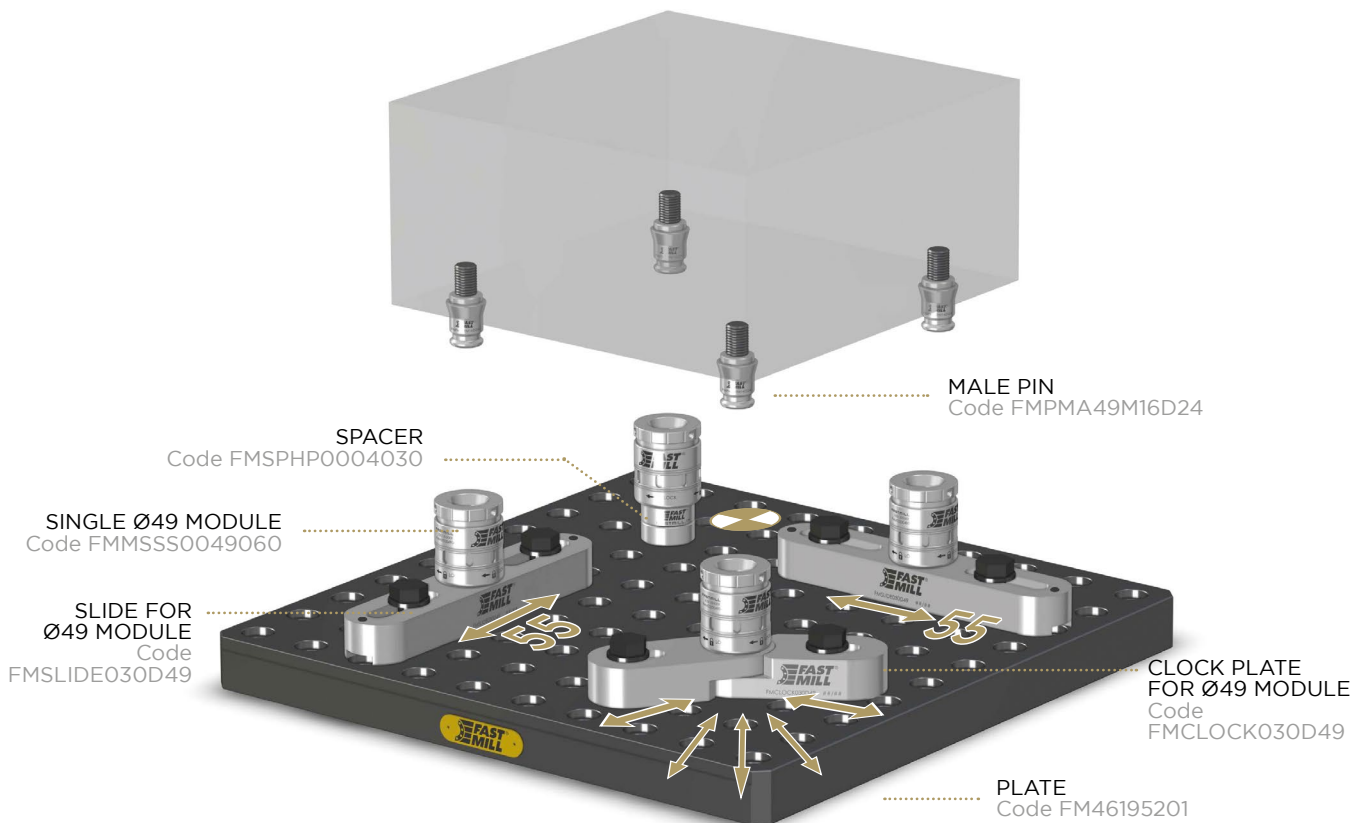
CODE	DESCRIPTION	DIMENSION	HEIGHT	WEIGHT
FMSLIDE030D49	Slide plate for Ø49 module	254x49 (10"x1,92")	30 (1,18")	2,0 (4,40 lbs)
FMCLOCK030D49	Clock plate for Ø49 module	215x55 (8,46"x2,16")	30 (1,18")	2,2 (4,85 lbs)



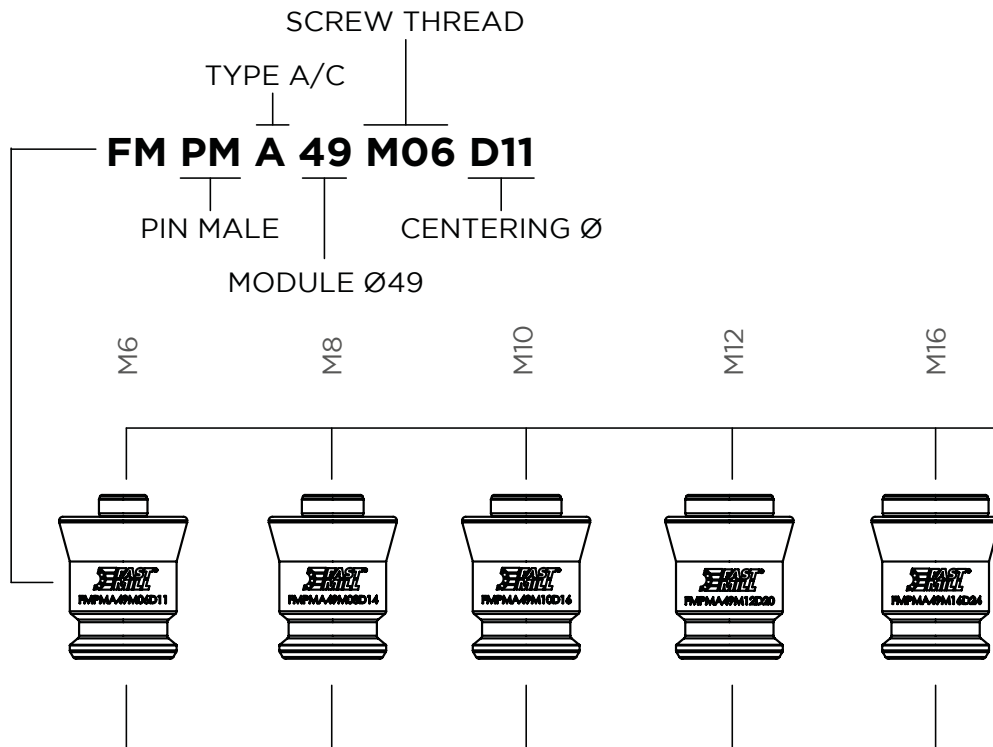
SETUP 2 ZERO POINTS / 2 SLIDE POINTS



SETUP 1 ZERO POINT / 3 FREE POINTS

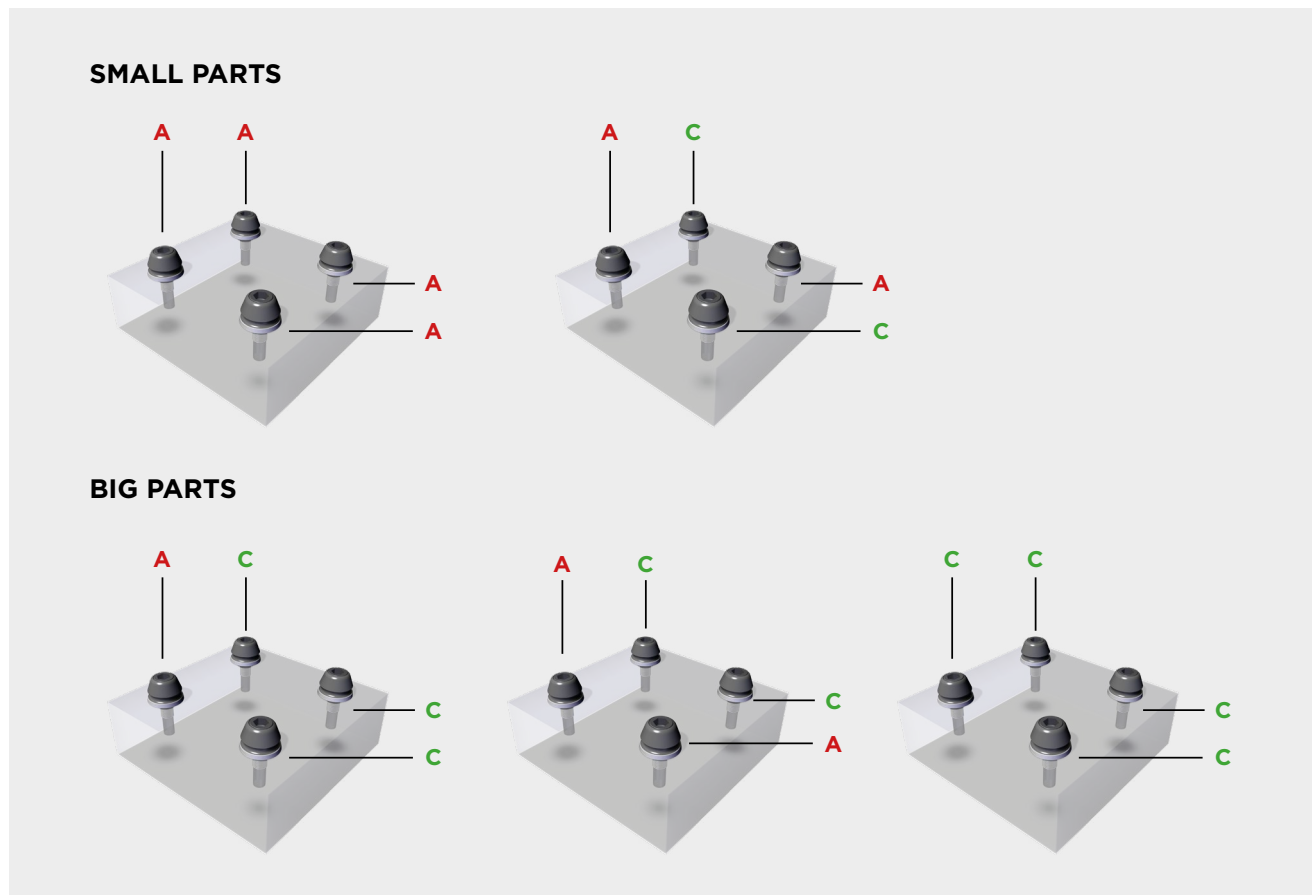


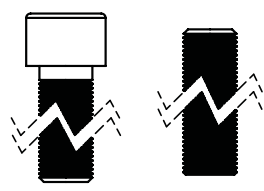
SINGLE MODULE Ø49 ASSEMBLY EXAMPLE



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.





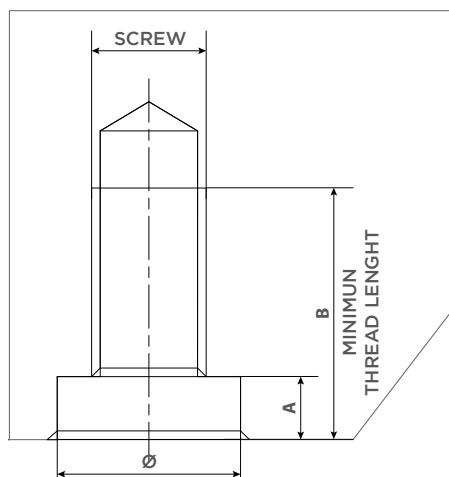
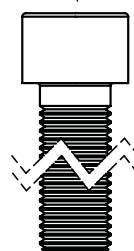
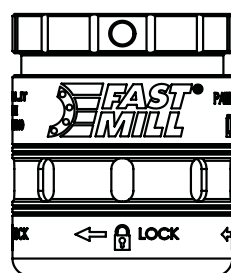
M6

M8

M10

M12

M16



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.



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

STANDARD 12.9 - SCREW DIN912 OR DIN913

