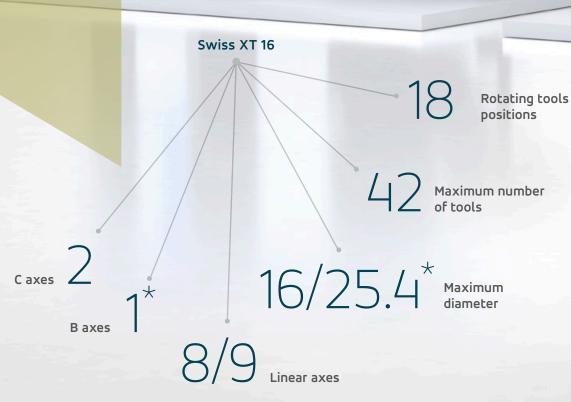


## Precision meets possibility Swiss XT range

## Swiss XT

Introducing the Swiss XT range: the ultimate fusion of compact design, versatility, and high-performance machining. With dimensions of just 3056 x 1440 x 2242 mm, this ergonomic powerhouse offers three independent tool systems and customizable axis options to meet all your precision needs. Experience an accessible machining area and the market's best price-performance ratio.



TORNOS

TORNOS

## Swiss XT: Engineering excellence



# Precision meets possibility

2,242 mm



#### Spindle excellence: power & profit

Elevate your production with our robust and powerful main and counter spindles, equipped with ceramic bearings for extended life. Maximize material throughput for more parts and increased profitability. They're not just spindles; they're the backbone of your success.

> The Swiss XT series takes versatility to new heights by offering two distinct models—each with customizable axis configurations:

#### Swiss XT 16: For precision and speed

- Bar capacity: Optimized for bars up to 16 mm in diameter.
- Spindle speed: Achieve an incredible maximum rotation speed of 12,000 rpm.
- Extended capability: Optionally accommodates bars up to 25.4 mm, with a reduced spindle speed of 10,000 rpm for this configuration.

#### Swiss XT 32: For robustness and flexibility

• Bar capacity: Built to handle bars up to 32 mm in diameter.

3,056 mm

EOULOT

• Guide bush-free operation: Remarkably works on bars of 38 mm without the need for a guide bush, offering greater material flexibility.

## 15-minute guide-bush conversion



#### Plug-and-play B-axis: zero backlash

Whether it's straight from the factory or after delivery, seamlessly add up to 4 extra tools in main operations. Experience the precision of a backlash-free design.

T,440 MIT

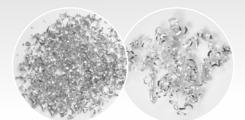
## Counter-operations: efficiency & complexity simplified

With 14 dedicated tools for counteroperations, tackle even the most complex parts effortlessly. Not only can you achieve intricate designs, but you'll also slash part cycle-times. It's complexity made simple.



Improve and ensure selfsufficiency with Tornos' Active Chip Breaker Plus (ACB Plus) software

Improve and secure the autonomy of your process (option).



Chips with ACB Plus Chips without ACB Plus

#### Configurable axis options for both models

- 8-axis configuration: Ideal for standard operations requiring high precision.
- 9-axis configuration: Includes a Z2 axis on the second gang, perfect for specialized tasks like deep drilling and balanced turning.

### Swiss XT

Welcome to the Swiss XT's cutting-edge machining area, where precision meets versatility. With options for 8 or 9 linear axes, up to 40 tools, and three independent tool systems, this is the command center for your most demanding projects. From intricate 5-axis tasks to high-throughput operations, this workspace is engineered to adapt to your every need. It's not just a machining area—it's the nucleus of unparalleled productivity.

Masterpieces of Swiss XT precision

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\* Option



X1 ←

6

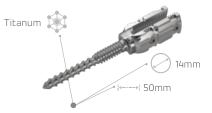
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Medical & dental

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**S11** 

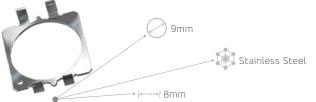


Medical & dental

S12







Electronic

## Discover unparalleled flexibility and performance with Swiss XT's comprehensive features

#### Your benefits :

## Maximize your profitability with unmatched speed and power

Outpace your competitors with the Swiss XT's high-powered spindles. Designed for versatility, these spindles offer:

- Equipped with ceramic bearings: For long-lasting durability and minimal friction.
- Uniform power output: Both spindles deliver an impressive 10.5 kW of power.
- Rapid acceleration: Achieve speeds of up to 10,000 rpm in just 0.3 seconds.
- High torque: Experience an extraordinary 26 Nm (19.177 ft./lb.) of torque.
- Liquid-cooled: Ensuring consistent performance and an extended lifespan

## Quick guide bush conversion for ultimate flexibility

Transition seamlessly between guide bush and non-guide bush operations in as little as 15 minutes, all without disconnecting any cables. With Tornos TMI automating the process, it's as simple as unscrewing the guide bush and placing it in its parking spot. Your Swiss XT is then ready for the next operation. Plus, the Swiss XT 32 model effortlessly handles bars of up to 38 mm in diameter when operating in non-guide bush mode.

#### Simplified programming with TISIS

Eliminate the complexities of programming a 3-independent-tool-system machine. Our TISIS software makes it easy, ensuring smooth operations and efficient task management.

## Optional plug-and-play B-axis for unmatched versatility

Upgrade at any time with our optional B-axis, expanding your machining possibilities and elevating your productivity.

## Streamlined efficiency with double gang tool configuration

Optimize task division and maximize productivity with our "double gang tool" setup, reducing cycle times and enhancing efficiency.

#### Affordable ACB Plus for superior chip management (Option)

Secure and improve your process autonomy with our optional ACB Plus software. Utilizing Active Chip Breaker technology, this feature ensures best-in-class chip management.

## Interchangeable tooling for cost-effective transitions

Experience seamless integration and cost savings with tooling compatibility across the Swiss DT and Swiss GT series.

#### Precision meets sustainability

The Swiss XT is more than just a precision machining marvel; it's an eco-conscious choice. Featuring Tornos' Eco Mode and a suite of sustainability options, it reduces energy consumption by up to 75%. Our preheating option ensures faster production and greater energy savings, while Eco Mode automatically conserves power during standby, reducing your carbon footprint without compromising performance. Choose the Swiss XT for precision and a commitment to a greener future.

#### Multi-tool operations for maximized productivity

Efficiently manage multi-tool tasks with two spindles, four tool posts, and the additional Z2 axis.

## Extended workpiece length with long Z1-axis mode

Maximize your workpiece length, achieve deep drilling, and utilize multiple tools simultaneously for optimized productivity.

## Advanced motor configurations for rotating tools

Standard setup: Comes with four motors for rotating tools—two for main operations and two for counter operations.

Optional add-ons: Enhance torque with optional additional motors, ideal for "massive" usage of rotating tools, or accommodate the B-Axis (B2) for even more versatility.



# Specifications

#### Swiss XT 16/8 8 linear axes + 2 C axes

Main spindle		3 independent tool systems
Max bar diameter	mm	16 (option 25.4)
Standard workpiece length with guide bush / bushless	mm	250 (330 option) / 50
Spindle rotation speed	rpm	12,000 (10,000 with option 25.4 mm)
Spindle power (S1 / S6)	kW	8.0 / 10.5
Max spindle torque	Nm	26
Main-operation		22
Number of tool positions Turning tool sections	~~~	23 12 x 12 / 16 x 16
Max number of tools		28
Number of turning tools		8
Number of frontal tools (main-operation / counter-operation)		5/5
Max front drilling diameter	mm	
Max front tapping diameter	mm	
Positions for rotating tools S11 and S21		4+4
Positions for rotating tools S12 (option) and S22/B2 (option)		4+4
Max rotating tool speed	rpm	8,000
Rotating tool power S11 and S21	kW	1.0 / 3.1
Rotating tool power S12 (option) and S22 (option)	kW	1.0 / 3.1
Max drilling diameter rotating tools		Ø10
Max tapping diameter rotating tools		M10 × 1.5
Stroke Z2 axis	mm	
Plug and play B-axis (B2) Positions for rotating tools (main operation)		2//: (action)
High-frequency spindle		3/4 (option)
Rotating tool speed of rotation		1 (option) 8,000
Rotating tool power	rpm kW	1.0 / 1.33
Max drilling diameter	 	05.2
Max tapping diameter	mm	
		MIC 41.5
Counter spindle		
Max bar diameter	mm	16 mm (Option 25.4 mm)
Max insertion length of workpiece into counter spindle	mm	90
Standard workpiece length	mm	120
Max spindle speed	rpm	12,000 (10,000 with option 25.4 mm)
Spindle power (S1 / S6)	kW	8.0 / 10.5
Max spindle torque Max drilling diameter	Nm	26
	mm	
Max tapping diameter	mm	1/10 × 1.25
Counter-operation		
Max number of tool positions		14
Positions for rotating tools		8
Max drilling diameter rotating tools	mm	Ø6
Max tapping diameter for rotating tools	mm	M5 x P0.8
Max rotating tool speed	rpm	6,000
Rotating tool power (S41 and S51)	kW	1.0 / 3.1
Total number of tools		42
Max. rapid feed rate	m/min	30
Numerical control		Fanuc 31i-MB+
General specifications		
Max length x width x height		3,056 x 1,440 x 2,242
Maight	mm	5,050 × 1,40 × 2,242
Weight	mm kg	3,880
Cutting oil tank capacity Installed power		

3 independent tool systems         3 independent tool systems         3 independent tool systems           32 (36 without guidebush)         10 (option 254)         32 (38 without guidebush)           250 (330 option) / 50         250 (330 option) / 50         250 (300 option) / 50           80 / 105         80 / 105         80 / 105           80 / 105         80 / 105         80 / 105           26         26         26           27         23         23           28         28         28           28         28         28           28         28         28           28         28         28           28         28         28           28         28         28           28         28         28           28         28         28           28         28         28           29         10         10         10           29         10         10         10           29         10         10         10           29         10         10         10         10           29         10         10         10         10	Swiss XT 32/9	Swiss XT 16/9	Swiss XT 32/8
32 (38 without guidebuch)         16 (option 254)         32 (38 without guidebuch)           250 (330 option) / 50         250 (330 option) / 50         250 (330 option) / 50         8000           8,000         12,000 (10,000 with option 254 mm)         8,000		9 linear axes + 2 C axes	
256 (330 option) / 50         250 (330 option) / 50         250 (330 option) / 50           B00         12,000 (10,000 with option 254 mm)         800 / 10.5           B0 / 10.5         B0 / 10.5         B0 / 10.5           26         26         26           23         23         23           16 6 × 16         12 × 12 / 16 × 16         15 × 16           28         28         28           28         28         28           29         28         28           20         28         28           28         28         28           5 / 5         5 / 5         5 / 5           600         010         010           010         010         010           010         010         010           100 / 31         10 / 31         10 / 31           100 / 31         10 / 31         10 / 31           010         010         010           010         010         010           010         10 / 13         10 / 13           010         10 / 13         10 / 13           010         10 / 13         10 / 13           010         100         100			
8,000         12,000 (10,000 with option 25 /r mm)         8,00 / 10.5           26         26         26           23         23         23           16 × 16         12 × 12 / 16 × 16         16 × 16           23         23         23           24         28         28           28         28         28           29         28         28           20         28         28           20         28         28           28         28         28           29         28         28           30         8         8         8           31         10 / 31         90         90           10         910         910         910           31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31			
B0 / 105         B0 / 105         B0 / 105           26         26         26         26           23         23         23         23           16 x 16         12 x 12 / 16 x 16         16 x 16         28         28           28         28         28         28         28           3         6 x 15         5 / 5         5 / 5         5 / 5         5 / 5           010         00         010         010         010           M10 x 15         M10 x 15         M10 x 15         M10 x 15           4 + 4         4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4         4 + 4           6 8000         8000         8000         8000           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           034 (option)         3/4 (option)         3/4 (option)         10 / 133           04 (option)         14 (option)         10 / 133         10 / 133           04 (option)         3/4 (option)         8/4 (option)         8/4 (option)			
26         26         26         26           23         23         23         23           15 x 16         12 x 12 / 16 x 16         16 x 16           28         28         28           3         6         8           6         5 / 5         5 / 5           610         000         000           M10 x 15         M10 x 15         M10 x 15           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           6,000         8,000         8,000           10 / 31         10 / 31         10 / 31           110 / 31         10 / 31         10 / 31           10 0         000         000           00         000         000           00         000         000           10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31           00         000         8,000           10 / 31         10 / 31         10 / 31           00         8,000         8,000           10 / 133         10 / 133         10 / 133           00         00         00		12,000 (10,000 with option 25.4 mm)	
23         23         23           1% x 16         12 x 12 / 16 x 16         16 x 16           28         28         28           8         8         28           910         8/10         6/10           010         8/10         6/10           010         8/10         6/10           010         8/10         6/10           010         8/10         6/10           010         8/10         6/10           010         8/10         6/10           010         8/10         6/10           10/31         10/31         10/31           10/31         10/31         10/31           10/31         10/31         10/31           010         8/10         6/10           110/31         10/133         10/133           010         8/10         8/10           110/133         10/133         10/133           052         052         052           052         052         052           052         052         052           052         052         052           052         052         052	8.0 / 10.5	8.0 / 10.5	8.0 / 10.5
16 × 16         12 × 12 / 15 × 16         16 × 16           28         28         28           28         28         8           3 5 / 5         5 / 5         5 / 5           00         000         000           M10 × 15         M10 × 15         M10 × 15           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         0.00         8.000         8.000           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 13         10 / 13         10 / 133         10 / 133           11 / 10 / 100         1 (option)         3/4 (option)         3/4 (option)           3/4 (option)         3/4 (option)         3/4 (option)         3/4 (option)           10 / 133         10 / 133         10 / 133         10 / 133           10 / 133         10 / 133         10 / 133         10 / 133           10 / 130         10 /	26	26	26
16 × 16         12 × 12 / 15 × 16         16 × 16           28         28         28           28         28         8           3 5 / 5         5 / 5         5 / 5           00         000         000           M10 × 15         M10 × 15         M10 × 15           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         0.00         8.000         8.000           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31         10 / 31           10 / 13         10 / 13         10 / 133         10 / 133           11 / 10 / 100         1 (option)         3/4 (option)         3/4 (option)           3/4 (option)         3/4 (option)         3/4 (option)         3/4 (option)           10 / 133         10 / 133         10 / 133         10 / 133           10 / 133         10 / 133         10 / 133         10 / 133           10 / 130         10 /			
28         28         28           8         8         8           010         010         010           M10 × 15         M10 × 15         M10 × 15           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31           10 / 133         10 / 133         10 / 133           10 / 133         10 / 133         10 / 133           10 / 133         10 / 133         10 / 133           10 / 133         10 / 133         10 / 133			
B         B         B           5 / 5         5 / 5           010         010           011         010           012         010           013         010 × 15           014         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           4 + 4         4 + 4           600         8000           10 / 31         10 / 31           10 / 31         10 / 31           10 / 31         10 / 31           10 / 133         10 / 133           10 / 133         10 / 133           10 / 133         10 / 133           10 / 133         10 / 133           10 / 133         10 / 133           10 / 133         10 / 133           10 / 133         10 /			
010         010         010           M10 × 15         M10 × 15         M10 × 15           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           6000         8,000         8,000           10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31           010         010         010           010         010         010           010 × 15         M10 × 15         M10 × 15           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         652         652           010 / 133         10 / 133         10 / 133           010 / 130         10 / 133         10 / 130	28		
010         010         010           M10 × 15         M10 × 15         M10 × 15           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           6000         8,000         8,000           10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31           010         010         010           010         010         010           010 × 15         M10 × 15         M10 × 15           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         50         50           -         652         652           010 / 133         10 / 133         10 / 133           010 / 130         10 / 133         10 / 130	8		
M10 × 15         M10 × 15         M10 × 15           4 + 4         4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           4 + 4         4 + 4         4 + 4           8,000         8,000         8,000           10 / 31         10 / 31         10 / 31           10 / 31         10 / 31         10 / 31           010         010         010           010         010         010           010         010         010           10 / 31         10 / 31         10 / 31           010         010         010           010         010         010           10 / 31         10 / 31         10 / 31           10 / 31         10 / 133         10 / 133           11 (option)         1 (option)         1 (option)           11 (option)         1 (option)         1 (option)           11 (option)         1 (option)         1 (option)           120         052         052           131         10 / 133         10 / 133           14         10         10           15         100 × 15         100           16 <t< td=""><td>5/5</td><td>5 / 5</td><td>5 / 5</td></t<>	5/5	5 / 5	5 / 5
4+4         4+4         4+4           4+4         4+4         4+4           4+4         4+4         4+4           0         0.000         8.000           10/31         10/31         10/31           10/31         10/31         10/31           10/31         10/31         10/31           010         010         010           010         010         010           10/31         10/31         10/31           010         010         010           010         010         010           010         010         010           110/31         10/13         10/13           3/4 (option)         3/4 (option)         3/4 (option)           1 (aption)         1 (aption)         1 (aption)           1 (aption)         1 (aption)         1 (aption)           1 (aption)         10/133         10/133           0 (52         052         052           10/133         10/133         10/133           0 (52         052         052           120         120         120           120         120         120           120		Ø10	Ø10
4+4         4+4         4+4           8,000         8,000         8,000           10/31         10/31         10/31           10/31         10/31         10/31           010         010         010           M10×15         M10×15         M10×15           -         50         50           3/4 (option)         3/4 (option)         3/4 (option)           3/4 (option)         1 (option)         1 (option)           10/133         10/133         10/133           052         052         052           010         8,000         8,000           10/133         10/133         10/133           052         052         052           052         052         052           010×15         M10×15         M10×15           32         16 mm (0ption 25.4 mm)         32           90         90         90           90         120         120           120         120         120           120         120         120           120         120         010           010         010         010           14	M10 × 1.5	M10 × 1.5	M10 × 1.5
8,000         8,000         8,000           10/31         10/31         10/31           10/31         10/31         10/31           010         010         010           M10×15         M10×15         M10×15           -         50         50           3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           1 (option)         1 (option)         1 (option)           0 52         0 52         0 52           0 50         90         90           10 / 133         10 / 133         10 / 133           0 52         0 52         0 52           0 50         90         90           100         120         120           100         120         120           100         120         120           100         120         120           120         1200         120           120         1200         120           120         120         120           120         120         120           120         120         120           130         100	4 + 4	4 + 4	4 + 4
10/31         10/31         10/31           10/31         10/31         10/31           00         010         000           MI0×15         MI0×15         MI0×15           -         50         50           3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           1 (option)         1 (option)         1 (option)           8,000         8,000         8,000           10/133         10/133         10/133           052         052         052           010         120         052           100         120         120           120         120         120           120         120         120           80/105         80/105         80,000           80/105         80/105         80,000           14         14         14           14         14         14           14         14         14           14         14         14           15         M5×P0.8         M5×P0.8	4 + 4	4 + 4	4 + 4
10/31         10/31         10/31           010         010         010           M10×15         M10×15         M10×15           -         50         50           3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           0 (option)         1 (option)         1 (option)           0 (option)         1 (option)         1 (option)           0 (option)         1 (option)         1 (option)           10 / 133         10 / 133         10 / 133           0 (option 254 mm)         32         052           32         16 mm (Option 254 mm)         32           30         12,000 (0,000 with option 254 mm)         30 (002           8,000         12,000 (0,000 with option 254 mm)         8,000           0         0         0         0           10         0         0         0           10         0         0         0         0           10         0	8,000	8,000	8,000
Ø10         Ø10         Ø10           M10 × 15         M10 × 15         M10 × 15           -         50         50           3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           1 (option)         1 (option)         1 (option)           0 (option)         1 (option)         1 (option)           0 (option)         1 (option)         1 (option)           0 (option)         0 (option)         0 (option)           0 (option)         1 (option)         1 (option)           0 (option)         0 (option)         0 (option)           0 (option)         0 (option)         0 (option)           10 (option)         120         120           120         120         120           120         120         120           0 (option)         0 (option)         0 (option)           0 (option)         0 (option)         0 (option)           0 (option)         120         120           120         1200         1200           0 (option)         0 (option)         0 (option)           0 (option)         0 (option)         0 (option)	1.0 / 3.1	1.0 / 3.1	1.0 / 3.1
M10 × 15         M10 × 15         M10 × 15         M10 × 15           -         50         50           3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           0         8,000         8,000           0         8,000         8,000           0         10 / 133         10 / 133           0         52         052           0         52         052           0         10 × 15         M10 × 15           10 / 133         10 / 133         10 / 133           0         52         052           0         52         052           0         10 × 15         M10 × 15           32         16 mm (Option 25.4 mm)         32           390         90         90           120         120         120           120         120         100           8,000         12,000 (10,000 with option 25.4 mm)         80.0 / 10.5           26         26         26           010         010         010           0         010         010           14         14         14     <	1.0 / 3.1	1.0 / 3.1	1.0 / 3.1
-         50         50           3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           8,000         8,000         8,000           001 (133         10 / 133         10 / 133           005.2         05.2         05.2           M10 ×1.5         M10 ×1.5         M10 ×1.5           120         120         120           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120           120         120         120           14         14         14           14         14         14           8         8         8           06         06         06           06         06         06           05         06         06           06         06         06           06         06         06           06         06         06           06         06         06           06	Ø10	Ø10	Ø10
3/4 (option)         3/4 (option)         3/4 (option)           1 (option)         1 (option)         1 (option)           8,000         8,000         8,000           10 / 133         10 / 133         10 / 133           05.2         05.2         05.2           M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (0ption 25.4 mm)         32           90         90         90           90         120         120           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120           120         120         120           120         120         120           130         14         14           14         14         14           14         14         14           14         14         14           14         14         14           14         14         14           16         06         06           06         06         06	M10 × 1.5	M10 × 1.5	M10 × 1.5
1 (option)         1 (option)         1 (option)           8,000         8,000         8,000           10 / 133         10 / 133         10 / 133           05.2         05.2         05.2           M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           90         90         90           120         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120           120         120         120           120         12,000 (10,000 with option 25.4 mm)         8,000           8,0/10.5         8.0 / 10.5         8.0 / 10.5           120         12,000 (10,000 with option 25.4 mm)         8,000           120         12,000 (10,000 with option 25.4 mm)         8,000           120         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120         120           120         120         120         120           120	50	50	-
1 (option)         1 (option)         1 (option)           8,000         8,000         8,000           10 / 133         10 / 133         10 / 133           05.2         05.2         05.2           M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           90         90         90           120         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120           120         120         120           120         12,000 (10,000 with option 25.4 mm)         8,000           8,0/10.5         8.0 / 10.5         8.0 / 10.5           120         12,000 (10,000 with option 25.4 mm)         8,000           120         12,000 (10,000 with option 25.4 mm)         8,000           120         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120         120           120         120         120         120           120			
1 (option)         1 (option)         1 (option)           8,000         8,000         8,000           10 / 133         10 / 133         10 / 133           05.2         05.2         05.2           M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           90         90         90           120         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120           120         120         120           120         12,000 (10,000 with option 25.4 mm)         8,000           8,0/10.5         8.0 / 10.5         8.0 / 10.5           120         12,000 (10,000 with option 25.4 mm)         8,000           120         12,000 (10,000 with option 25.4 mm)         8,000           120         12,000 (10,000 with option 25.4 mm)         8,000           120         120         120         120           120         120         120         120           120	3/4 (option)	3// (option)	3/// (option)
8,000         8,000         8,000         8,000           10 / 133         10 / 133         10 / 133         10 / 133           052         052         052         052           M10 ×1.5         M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           10         0         10         10           8,010.5         8.0 / 10.5         8.0 / 10.5         8.0 / 10.5           10         0.10         0.10         0.10         0.10           11         14         14         14         14           14         14         14         14         14           14         14         14         14         14           14         14         14         14         14         14         14         14         14         14         14         14 <td< td=""><td></td><td></td><td></td></td<>			
10/133         10/133         10/133           052         052         052           M10×1.5         M10×1.5         M10×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,010.5         8.0 / 10.5         8.0 / 10.5           26         26         26           010         010         010           010         010         010           14         14         14           8         8         8           06         06         06           05         06         06           06         06         06           05 × P0.8         M5 × P0.8         M5 × P0.8			
Ø5.2         Ø5.2         Ø5.2           M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,001         12,000 (10,000 with option 25.4 mm)         8,000           8,010.5         8.0 / 10.5         8.0 / 10.5           26         26         26           0         010         010           0         010         010           0         14         14           14         14         14           8         8         8           0         06         06           05         06         06           05         06         06           05         06         06			
M10 ×1.5         M10 ×1.5         M10 ×1.5           32         16 mm (Option 25.4 mm)         32           90         90         90           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,01         10.5         8.0 / 10.5         8.0 / 10.5           26         26         26         26           010         010         010         010           14         14         14         14           8         8         8         8           06         06         06         06           M5 × P0.8         M5 × P0.8         M5 × P0.8			
32         16 mm (Option 25.4 mm)         32           90         90         90           120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000           8,0/10.5         8.0 / 10.5         8.0 / 10.5           26         26         26           010         010         010           08×1.25         M8×1.25         M8×1.25           14         14         14           8         8         8           06         06         06           M5×P0.8         M5×P0.8         M5×P0.8			
90         90         90         90           120         120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000         8,000           8,0/10.5         8.0/10.5         8.0/10.5         8.0/10.5         8.0/10.5           26	1410 × 1.5	MIU *I.5	1910 × 1.5
90         90         90         90           120         120         120         120           8,000         12,000 (10,000 with option 25.4 mm)         8,000         8,000           8,0/10.5         8.0/10.5         8.0/10.5         8.0/10.5         8.0/10.5           26			
120       120       120         8,000       12,000 (10,000 with option 254 mm)       8,000         8,0 / 10.5       8,0 / 10.5       8,0 / 10.5         8,0 / 10.5       8,0 / 10.5       8,0 / 10.5         26       26       26         010       010       010         M8 × 1.25       M8 × 1.25       M8 × 1.25         14       14       14         8       8       8         06       06       06         075 × P0.8       M5 × P0.8       M5 × P0.8		· · · · · ·	
8,000         12,000 (10,000 with option 25.4 mm)         8,000           8.0 / 10.5         8.0 / 10.5         8.0 / 10.5           26         26         26           Ø10         Ø10         Ø10           M8 × 1.25         M8 × 1.25         M8 × 1.25           14         14         14           8         8         8           Ø6         Ø6         Ø6           M5 × P0.8         M5 × P0.8         M5 × P0.8	90		
8.0 / 10.5         8.0 / 10.5         8.0 / 10.5           26         26         26           010         010         010           M8 × 1.25         M8 × 1.25         M8 × 1.25           14         14         14           8         8         8           06         06         06           M5 × P0.8         M5 × P0.8         M5 × P0.8			
26         26         26           010         010         010           M8 × 1.25         M8 × 1.25         M8 × 1.25           14         14         14           8         8         8           06         06         06           M5 × P0.8         M5 × P0.8         M5 × P0.8			
Ø10         Ø10         Ø10           M8 × 1.25         M8 × 1.25         M8 × 1.25           Image: Matrix of the state st		8.0 / 10.5	8.0 / 10.5
M8 × 1.25         M8 × 1.25         M8 × 1.25           14         14         14           8         8         8           06         06         06           M5 × P0.8         M5 × P0.8         6,000	26	26	26
14         14         14           8         8         8           06         06         06           M5 x P0.8         M5 x P0.8         M5 x P0.8           6,000         6,000         6,000		Ø10	
8         8         8           06         06         06           M5 x P0.8         M5 x P0.8         M5 x P0.8           6,000         6,000         6,000	M8 × 1.25	M8 × 1.25	M8 × 1.25
8         8         8           06         06         06           M5 x P0.8         M5 x P0.8         M5 x P0.8           6,000         6,000         6,000			
8         8         8           06         06         06           M5 x P0.8         M5 x P0.8         M5 x P0.8           6,000         6,000         6,000	14	14	14
M5 x P0.8         M5 x P0.8         M5 x P0.8           6,000         6,000         6,000	8		
M5 x P0.8         M5 x P0.8         M5 x P0.8           6,000         6,000         6,000	Ø6		
6,000 6,000 6,000			
10/31 10/31 10/31	1.0 / 3.1	1.0 / 3.1	1.0 / 3.1
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Fanuc 31i-MB+Fanuc 31i-MB+Fanuc 31i-MB+	Fanuc 31i-MB+	Fanuc 31i-MB+	Fanuc 31i-MB+
3,056 × 1,440 × 2,242 3,056 × 1,440 × 2,242 3,056 × 1,440 × 2,242	3.056 × 1.440 × 2.242	3.056 × 1.440 × 2.242	3.056 × 1.440 × 2.242
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