ACCELERON | PRECISION ENGINEERING TECHNOLOGIES

THE ULTIMATE DRILL TAP CENTER

DT7

Milling, Drilling and Tapping Excellence

REDEFINING- PRECISION, PERFORMANCE & VERSATILITY

Experience unparalleled precision and efficiency with our latest innovation, the High-Speed Drill Tap Centre. Engineered to meet the demands of modern manufacturing environments, this cutting-edge machine offers superior performance and versatility for a wide range of machining applications.

The actual machine may vary from the images displayed.

Table size (mm)

700×420

VERSATILE CUTTING: HIGH-SPEED TO HEAVY-DUTY

Versatile cutting capabilities cover high-speed to heavy-duty operations. Our rigid machine structure and efficient spindle motor enable broad machining capabilities. Tailored spindles serve various industries like automotive, semiconductor, and precision parts. Enhanced NC system ensures high precision and speed, even in complex tasks.

Max. table loading capacity 350 kg

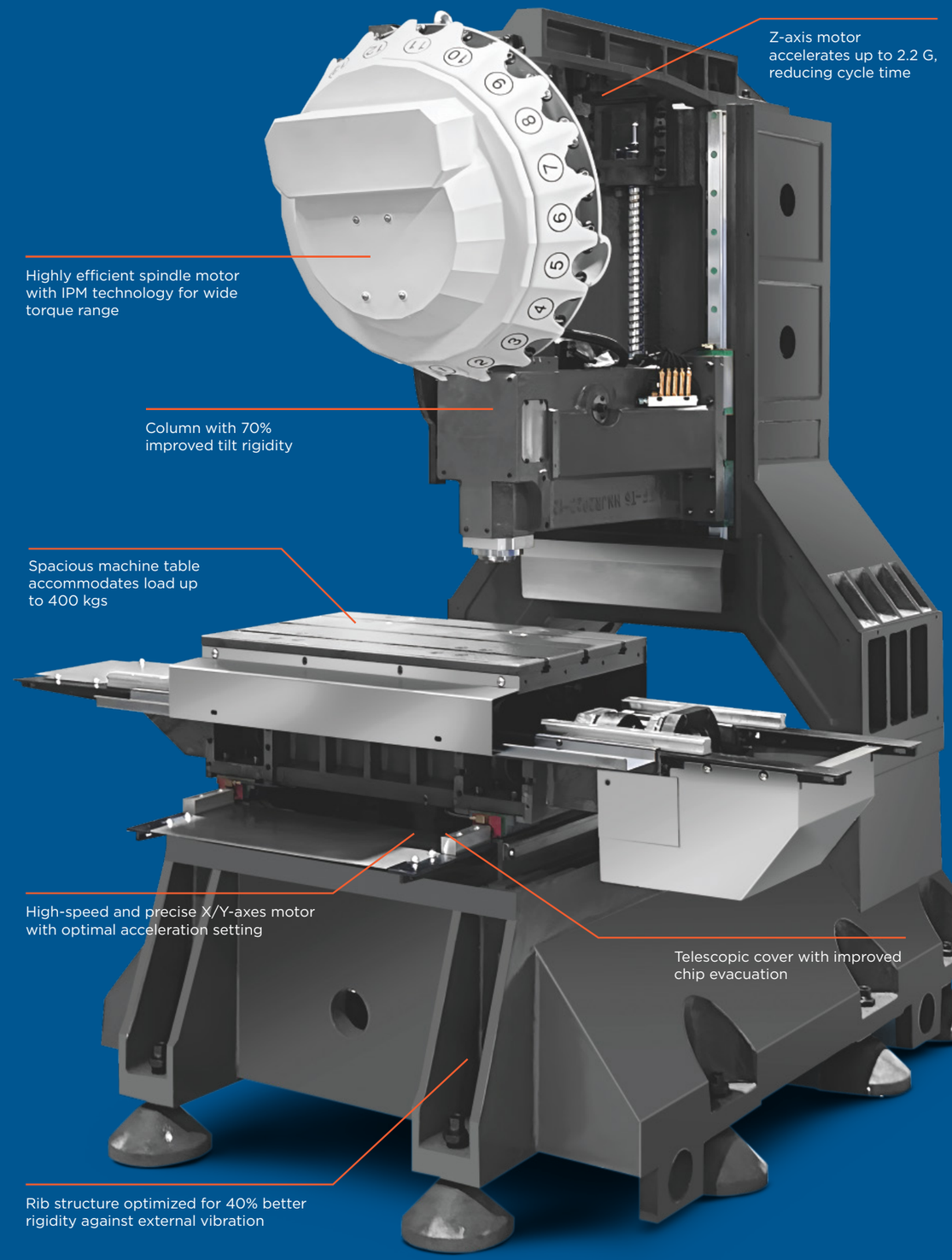
The maximum table loading capacity has been increased to 350 kg. This expands choices of fixtures and promotes process integration.

Tool to Tool:
1.8 seconds
Chip to Chip:
2.4 seconds
Tool Change Time

1.02 seconds
Clamp mode

0.45 seconds
Unclamp mode

Designed for High Performace



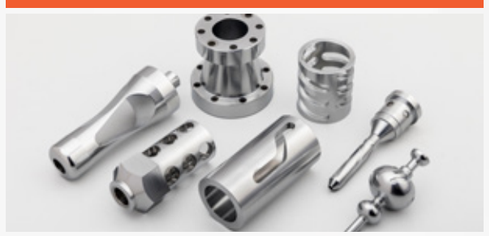
Key Features

The exceptionally rigid machine structure, combined with an efficient spindle motor, facilitates a broad spectrum of machining capabilities. Tailored spindles are suitable for applications across diverse industries, including automotive, semiconductor, precision parts, and IT equipment. The enhanced NC system, boasting increased processing speed, delivers exceptional precision and high-speed performance, even in complex three-dimensional machining tasks.

High-Speed Spindle

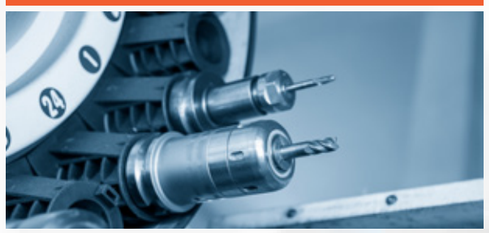
Equipped with a high-speed spindle, the Drill Tap Centre delivers exceptional cutting performance and rapid machining speeds, reducing cycle times and increasing productivity.

Precision Engineering



Built with precision-engineered components and advanced CNC technology, this machine ensures unmatched accuracy and repeatability, meeting the stringent quality standards of precision machining.

Versatile Machining Capabilities



With the ability to perform milling, drilling, tapping, and other machining operations in a single setup, the Drill Tap Centre offers versatility and flexibility for diverse manufacturing needs.

Automatic Tool Change

Featuring an automatic tool changer, this machine enables seamless tool changes during machining operations, maximizing uptime and efficiency.

User-Friendly Interface

Intuitive controls and a user-friendly interface make operation easy and straightforward, allowing operators to program and execute machining tasks with ease.

Compact Design

Designed for space-saving efficiency, the Drill Tap Centre boasts a compact footprint without sacrificing performance, making it ideal for small to medium-sized manufacturing facilities.

Robust Construction

Constructed with a heavy-duty frame and durable components, this machine is built to withstand the rigors of high-speed machining and delivers reliable performance day after day.

ENGINEERED FOR SEAMLESS AUTOMATION

Tailored for seamless integration into automated workflows, the DT7 boasts a compact design and user-friendly layout, ensuring hassle-free machine tending operations. Our Quick and Simple Startup Packages further simplify the process of integrating tending robots, facilitating swift deployment and maximizing productivity.

ACCELERON Mobile Cobot

The Acceleron Mobile Cobot is a high-end collaborative robot with autonomous driving and Industry 4.0 technology. It excels in tasks like handling, assembly, and machine tending, using advanced mapping, path planning, obstacle avoidance, object recognition, and voice control. Widely used in smart manufacturing, lab testing, inspection, and material sorting, it enhances production efficiency and supports intelligent transformation

Precise

±0.02mm
Highest Repeat Positioning Accuracy

±0.13mm
3D Vision Spatial Compensation Accuracy

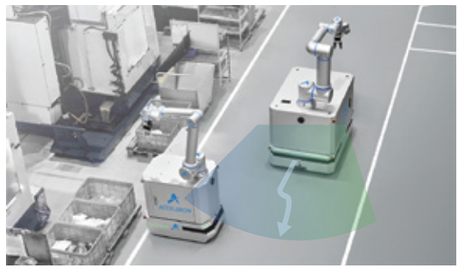
Intelligent

TOS Operating System

Integrates the original four independent modules into one harmonized controling system.
Hand (robotic arm), Foot (AMR), Eye (vision), Brain (AI)

Data Interconnection with other production equipments

Resolve the problem of data/information isolation



Autonomous Navigation

Actively avoiding obstacles and optimize path planning in real time

Machine Specifications

Elevate your machining capabilities with our versatile High-Speed Drill Tap Centre, shaping the future of precision manufacturing

Description				DT7
Table	Table Size		mm	700 X 420
	Max. Load Capacity		kg	350
	T-Slots		mm	3 X 18 - 100
	Dist. Table Surface to Spindle		mm	120 - 470
Spindle	Spindle Taper			BBT 30
	Spindle Speed [Options]		rpm	12000 [15000, 20000]
	Spindle Driving Method			Direct
	Main Spindle Power Output [Options]		kw	5.5 / 7.5 [3.7 / 5.5]
	Max. Spindle Torque [Options]		nm	47.7nm @ 1500rpm [30nm @ 4200rpm]
Feed	Travel (X/Y/Z)		mm	680 / 400 / 360
	Rapid Rate (X/Y/Z)		m/min	48 / 48 / 48
	Feed Rate (X/Y/Z)		m/min	20
ATC	Guideways			Ball
	Number of Tools		nos.	21
	Max. Tool Dia. (W.T / W.O)		mm	Ø100 / Ø140
	Max. Tool Length		mm	250
	Max. Tool Weight		kg	3
	Tool Change Time	T-T	sec	1.8
		C-C	sec	2.4
Power Supply	Air Consumption		bar	6-8
	Electric Power Supply		kva	15
	Voltage		v/hz	380v±10% 50hz
Machine	Machine Dimensions		mm	2000 X 2410 X 2400
	Machine Weight		kg	3500

Technical specifications and optional items may be subject to change without prior notice.

DELIVERS HIGH PRODUCTIVITY ACROSS VARIOUS APPLICATIONS, FROM MASS PRODUCTION TO SMALL-VOLUME MULTI-PRODUCT RUNS


Automotive Components


Aerospace Parts


Electronics Enclosures


Medical Devices


Precision Machined Parts

ENGINEERED FOR YOUR SUCCESS

PRECISION
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A Group Company of Phillips Machine Tools

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