DC12i Specifications

AXILE - Digital

MACHINE SPECIFICATIONS

MODEL		UNIT	DC12i
STANDARD LINEAR AXES	X axis	mm	2200
	Y axis	mm	1400
	Z axis	mm	1000
STANDARD ROTARY AXIS	Built-in rotary table diameter	mm	Ø 1200
	Full machine table	mm	2200 x 1200
	Table load	kg	2500
	B axis driven system (spindle head)	Swivel +/- 110°	Torque motor
	C axis driven system (rotary table)	Rotary 360°	Torque motor
STANDARD AXIS DRIVE	Maximum Feedrate	m/min	36
	Lubrication type		Grease
STANDARD SPINDLE	Driven system		Built in
	Maximum speed	rpm	20,000
	Power S1/S6 (40%)	kW	60/73.1
	Torque S1/S6 (40%)	Nm	119.4/145.4
	Interface		HSK-A63
	Bearing lubricant		Oil air
	Water chiller ±0.2 degree		STD
STANDARD ATC	Magazine capacity STD	Tools	90
	Smart tool load station		STD

All specifications are subject to change without prior notice.

See overleaf for standard value-added functions & ART™ monitoring system.
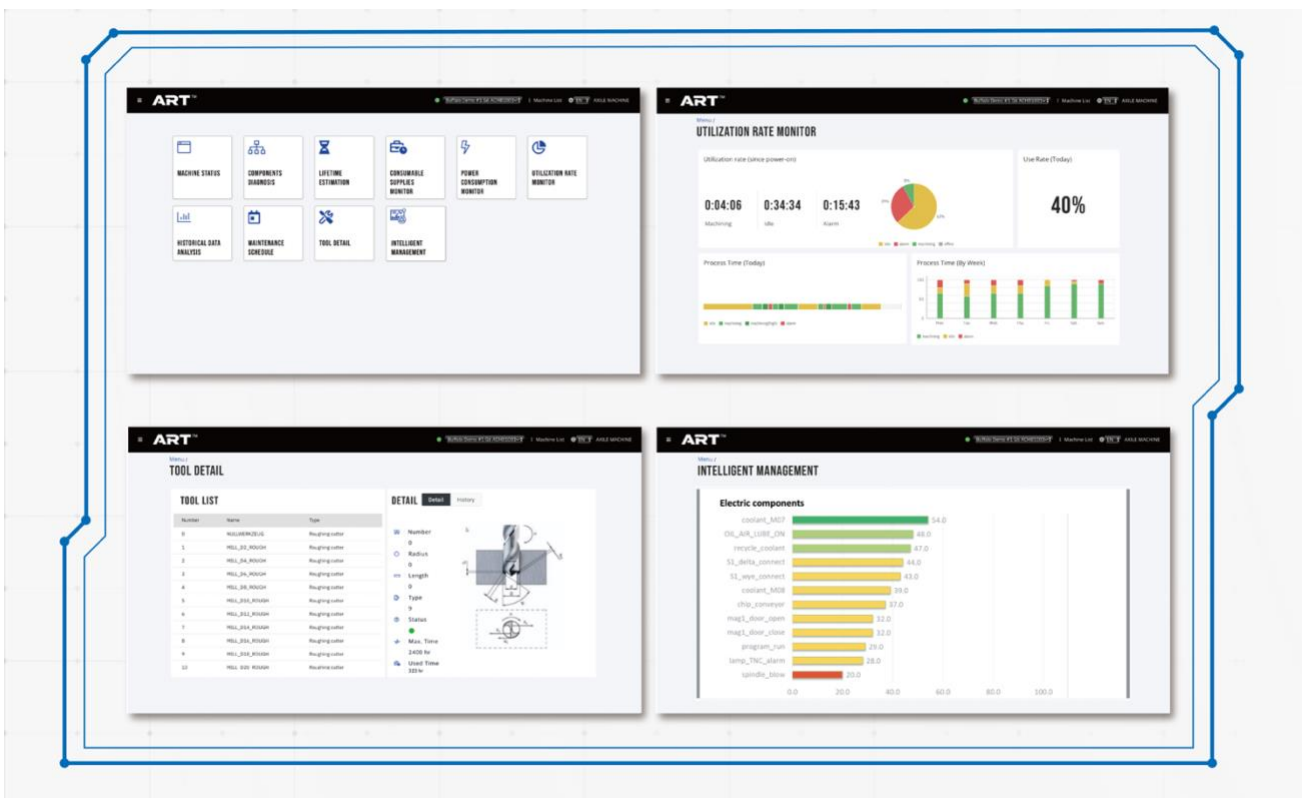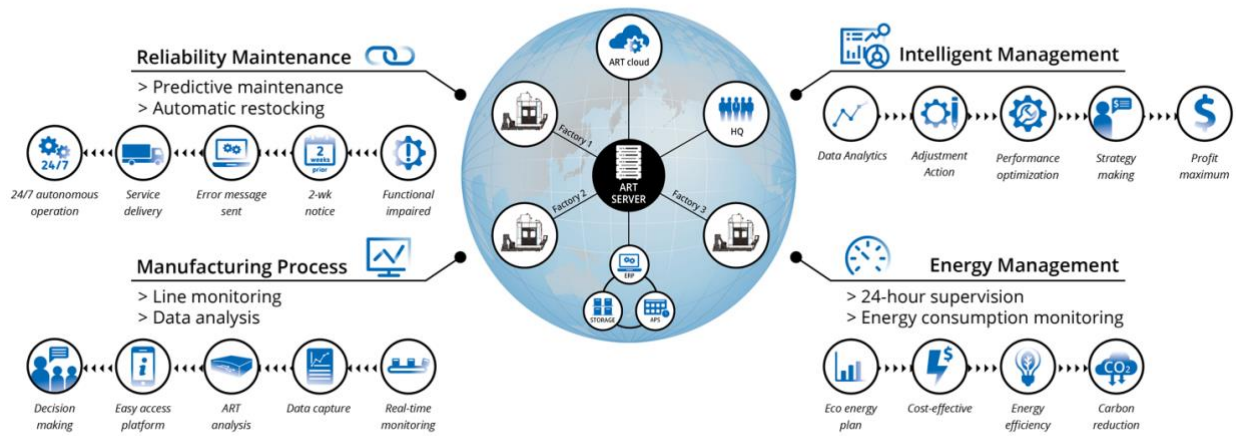
DC12i Specifications

AXILE - Digital

MODEL		UNIT	DC12i
STANDARD VALUE-ADDED FUNCTIONS	3xhydraulic+1xpneumatic port interface on C axis table		STD
	Air through spindle (wet/Dry rotary union) with solenoid to adjust air pressure		STD
	Linear scales for X/Y/Z axis		STD
	Preparation for oil mist collector (interface ready)		STD
	EMC + Safety module for CE regulations		STD
	LED signal lamp with 3 colours		STD
	Electrical parts preparation for BLUM laser tool setter		STD
	SMT function - TPC - Tool-tip Positioning Control		STD
	SMT function - SVS - Spindle Vibration Supervision		STD
	SMT function - AAC - Axial Accuracy Control		STD
	DCM function (Dynamic Collision Monitoring) **Only applicable with Heidenhain control.**		STD
	Levelling pad (height adjustable)		STD
	ART system, including: - ART™ App - Heidenhain RemoTools SDK - Microsoft VISUAL STUDIO 2019 Pro - Vibration sensors and amplifiers for lubricator - Bearing force sensors for axes - Charge amplifiers - Smart sensor for energy management - ifm AS-i or IO link for sensors - ART™ analyzer (IPC) - 2nd monitor		STD

All specifications are subject to change without prior notice.

See overleaf for standard value-added functions & ART™ monitoring system.

ART™ Intelligent monitoring & management

Reliability Maintenance
> Predictive maintenance
> Automatic restocking

24/7 autonomous operation · Service delivery · Error message sent · 2-wk notice · Functional impaired

Manufacturing Process
> Line monitoring
> Data analysis

Decision making · Easy access platform · ART analysis · Data capture · Real-time monitoring

Intelligent Management

Data Analytics · Adjustment Action · Performance optimization · Strategy making · Profit maximum

Energy Management
> 24-hour supervision
> Energy consumption monitoring

Eco energy plan · Cost-effective · Energy efficiency · Carbon reduction

RELIABILITY MAINTENANCE (RM)
Unexpected downtime is the enemy of profitability. ART™ delivers machine component diagnostics, machine lifetime estimation and consumables supply monitoring to prevent machine failure and

MANUFACTURING PROCESS (MP)
Knowledge is power. ART™ achieves superior data collection and analytics on machine status and utilisation rate, to deliver real-time information for optimised production strategies.

ENERGY MANAGEMENT (EM)
Every penny counts. ART™ enables manufacturers to monitor their power consumption, to identify ways to maximise energy efficiency and reduce expenditure.

INTELLIGENT MANAGEMENT (IM)
ART™ provides analytical information for managers to understand the machine performance and take immediate action to optimise the machines capacity.