

HEADER INFORMATION

SERIAL NUMBER	1000047728
REVISION NUMBER	
ITEM CODE	MAN0350299-45594055
PRODUCT DESCR.	Rover A FT 2231
ORDER DATE	19/04/2021
DELIVERY DATE	03/12/2021
ORDER CONF. N.	4911000708
PROJECT N.	SY212045 / 1003

TECHICAL SPECIFICATIONS

NORMS	
COUNTRY OF DESTINATION	GERMANIA
LANGUAGE	GERMAN
FREQUENCY	50 HZ
CONNECTION VOLTAGE	400 VOLT
PHASE TYPE	THREE PHASE
PACKING	NO PACKING
SUPPLY OF	MACHINES ONLINE
ALTITUDE	

ITEMS LIST

QNT.	CODE	DESCRIPTION
1	9080531	Numerically controlled machining centres ROVER A FTManual centralized lubrication system1 area working field with 2 left origins, 1 front and 1 rear and 2 right origins, 1 front and 1 rearVacuum system with 2 locking zones (excluding the size 1224)Prearrangement for the connection of minimum nr. 2 250 m3/h or 300 m3/h vacuum pumps, or more pumps when selected (max. 3) Prearrangement for electrospindleElectric cabinet with air conditionerStandard Hand-held control keyboardIndustry 4.0 - Integration with factory systems* It requires the selection of one type of panel support between HFT or FT PLUS * It requires the selection of the advanced EC-UKCA safety coverage or NCE safety systems
1	9080537	Numerically controlled machining center ROVER A FT 2231 HFT or FT PLUS worktable dimension: X=3100mm; Y=2205mm* The dimensions indicate the distance between the stops in X and Y respectively; the maximum size of the panel that can be loaded automatically in Y is equal to the distance between the stops minus 5 mm
1	7510182	High-performance Personal Computer.
1	7510179	Uninterruptible Power Supply unit (UPS) for the machine PC.
1	7510163	bTouch - Touch screen monitor* Requires bSuite 3.0 or later
1	7000059	Wired remote keyboard.Keyboard controlling the main functions available for work area set-up, operating unit tooling and tool changers tooling.The wired remote keyboard supports the following languages: Croatian, Danish, Finnish, French, English, Italian, Norwegian, Dutch, Polish, Portuguese, Slovenian, Spanish, Swedish, German.In the presence of languages with special types, it can be selected one of the alternative languages that can be managed with ASCII types (32 to 127).
1	7000205	Automatic lubrication system
1	7022377	Safety coverage of the operating units.* The selection is mandatory
1	7022331	EC-UKCA safety system for machine with loading/unloading
1	7300456	FT PLUS panel support - size 2231* It Includes an MDF spoilboard of 12 mm thickness* It requires the selection of the Multizone

QNT.	CODE	DESCRIPTION
1	MK1S100278	Battute puntuali SX e DX (n° 2 battute SX+ n° 2 battute DX)
1	MK1S100283	Battute lineari non precise - n° 4 battute (DX+SX) - taglia .24 e .31 e .36
1	MK1S100283	Battute lineari non precise - n° 4 battute (DX+SX) - taglia .24 e .31 e .36
1	PL2003943	Sensorization of machine stops for the detection of lowered stops.The selection applies the sensors to all the stops present in the machine* Mandatory in presence of a 5-axes unit* Mandatory in presence of an unloading sweeper arm or loading / unloading group
1	7351076	10-zones Multizone vacuum system* Requires the Multizone vacuum system in presence of FT PLUS panel support
2	7300817	290 m3/h rotary claws vacuum pump * Cannot be used at an altitude over 1000 meters above sea level
1	PL2004310	Automatic Loading and Unloading System (Sweeping Arm + Loading Vacuum cups)Inclusive of:- Sweeping arm for panel unloading and spoilboard cleaning- Loading Vacuum cups system with blowing double circuit for transparent panels- Linear reference stops for piece containment during unloading cycle- Pneumatic vertical movement of the safety strips- Prearrangement for Scissor Lift or other supports available on the price list- Prearrangement for Loading stations type A and B- Prearrangement for Unloading beltTechnical specifications:- Thickness of single panel unloading: from 9 to 50 mm- Maximum single thickness loadable with multiple overlapping panels: 20 mm- Maximum thickness unloadable with multiple panels: 60 mm- Spoilboard thickness: from 8 to 25 mm- Maximum loading/unloading weight depending on the number of suction cups and therefore on the size:size 1531 -- 120 kgs size 1536 -- 120 kgs size 1836 -- 150 kgs size 2231 -- 150 kgs size 2243 -- 180 kgs size 2264 -- 200 kg- Minimum loadable Y axis dimension of the panel: 900 mm (without additional vacuum cup)* The unloading of thin pieces or panels with thickness between 3 and 9 mm requires the upgrade for NC positioned Sweeping Arm (where available)* Requires the selection of a workflow* The loading of multiple overlapping panels requires the upgrade for NC positioned Sweeping Arm* The simultaneous loading and unloading is guaranteed only for panels or packages whose difference of maximum thickness between loading and unloading is 45 mm, for different cases it is required a verification on the technical layout * Not compatible with full bumper safety systems* Requires the selection of machine sensorization
1	7350903	Additional Loading vacuum cupReduces the Y dimension of the minimum loadable panel to 600mm.* Not compatible with full bumper safety systems
1	7200337	Upgrade for NC positioned Sweeping Arm* Requires the selection of the unloading arm between the systems available* Mandatory to avoid during unloading the manual adjustment of thin pieces (thickness between 3 and 9 mm) or with very variable thicknesses
1	7800280	Flow 1Front LoadingFlow from Left to Right* Requires the reference stops and origins for RH area * For size 1564 allows the configuration with Sweeping arm for panel unloading and spoilboard cleaning
1	7200364	Loading station type B - Size 2231Inclusive of: ·Loading station with automatic alignment along X and Y·Machine connection frame with wheels·Additional safety fences and photocells kit·Prearrangement for automatic adhesive label printing and application system * Requires the selection of a workflow * The automatic loading of panels with thickness between 3 and 9 mm and/or porous panels requires the selection of the dedicated kit * Scissor Lift, Loading tables and Lifting table NOT included * Requires the Automatic Loading and Unloading System * There is no collision control with bSolid CAD / CAM or optional bSuite modules * Not compatible with full bumper safety systems
1	7200263	System for the loading of thin panels and thin transpiring panels for Loading station type BInclusive of:-Automatic pressure regulation system for thin material alignment-Installation of vacuum cups for panel's alignment with a double circuit for thin and thin transpiring panels detachment and loading* Minimum loadable panel thickness 3mm* The unloading of thin pieces or panels with thickness between 3 and 9 mm requires the upgrade for NC positioned Sweeping Arm* Requires the Loading station type B* Not compatible with full bumper safety systems* Not compatible with Loading Sweeping Arm + grippers
1	7200322	Automatic adhesive label printing and application system with 0-90° rotation for Loading station type BInclusive of Label Printer and Label application device.* Requires the Loading station type B* Not compatible with full bumper safety systems* Requires bNest
1	7200354	Outfeed Belt Conveyor - Size 2231Outfeed belt conveyor length 3740mm * Maximum unloadable panel 3100mm* It includes the brackets for pieces and off-cuts containment* Incompatible with the Rollers Hold-down unit with parking functionality* Requires the Automatic unloading system (Sweeping Arm) or the Automatic Loading and Unloading System (Sweeping Arm + Loading Vacuum cups)
1	7200459	Dust collection system positioned at the top of the outfeed belt conveyor.* Requires the outfeed belt conveyor
1	7200458	Dust collection system positioned at the end of the outfeed belt conveyor.* Requires the Outfeed belt conveyor
1	7300217	Fixed loading table - Size 2231* Requires the Loading station type B* Not compatible with full bumper safety systems
1	7800313	Configuration 1A

QNT.	CODE	DESCRIPTION
1	7212874	Blowing unit with 4 ring nozzles * Requires ISO or HSK electrospindle* Incompatible with 5-axes unit
1	7210090	Prearrangement for the assembly of a 360° rotation interpolating unit (C axis)
1	7210016	Flange for the assembly of aggregates on an electrospindle
1	7570016	Liquid chilling unit for liquid cooled systemsCapable to chill two electrospindles or one electrospindle and one liquid cooled boring head.
1	7550008	Presetter for the measurement of the tool length with diameter up to 130mm
1	PL1903138	Optimized suction hood for the removal of chips and dust with continuous positioning in Z* Incompatible with 5-axes operating unit
1	PL1903131	19.2 kW (25.7 HP) Electrospindle with HSK F63 adaptor and liquid cooling.* Liquid cooling box required* Requires at least one automatic tool changer magazine or Pick-Up, where expected* Requires the selection of a dust extraction hood (not included)
1	7291182	8 positions Revolver Toolchanger, positioned on the Y axis carriage* Not compatible with HSK E40 electrospindle or 5-axes unit* Not compatible with full bumper safety systems
1	7212271	Additional Z carriage installed on rear Y carriage, for operating units with BHZ.* It does not allow the subsequent retrofit of a boring head, a probe or other operating units* Retrofitting not available
1	7200087	BH10 Boring Head* Requires the additional Z carriage with pneumatic stroke (where available) or controlled by an independent axis* In presence of the Operating unit with 5 interpolating axes is compatible only with the Vertical routing unit and the specific horizontal spindles and blade kit or the cutting unit
1	7291167	16 positions Revolver Toolchanger, positioned on the X axis carriage* For configurations 1/3A* Not compatible with full bumper safety systems* Not compatible with chain tool changer
1	7210049	Strengthened gripper * Required for tools weighing over 6 kg
1	7250137	HSK F63 self-floating copying aggregate for constant depth routings, for tools with maximum diameter 62mm* There is no collision control with bSolid CAD / CAM or optional bSuite modules
1	7001205	Hi-Tech set of tools for NestingComplete set of tools for nesting machines running test.* Only for HSK F63 tool-holders
1	7530392	bSolid 3D CAD-CAM program to design, simulate and manage the machining processes of the Biesse machining centers and boring machines. The use of additional optional modules allows to expand and specialize the performance of the bSolid base module.* Minimum requirements needed of the PC for installation in office:Processor: Intel Core I5 or I7RAM: At least 8 GB RAMWindows 10 64-bit Operating SystemnVidia Graphic Card compatible with OpenGL 4.4 with at least 2 GB RAMMaximum resolution 1920x1080 with 16M colorsSSD Hard DiskAt least 20 GB of free space on the Hard Disk
1	7530409	B_NEST - Software module for nesting process applicationsB_NEST allows to create nesting projects including the item list with related quantities to be produced and the list of boards to be used with the target of minimize the used material and the machining timings. * It requires B_SOLID* Nesting optimisation (and the relevant check for collision with the table) is not compatible with B_SOLID programs containing curved faces, projections, wraps and machining operations programmed with the 5 axis finishing modules (including 5 axis Swarfing) and 5 axis roughing. These operations may occasionally be generated in a nesting result, but this is not guaranteed by Biesse.* It is not possible to export the programs resulting from the nesting in CIX format* Nesting diagrams are generated that only include compatible machining operations (see above) programmed on the top face (face 0). All the compatible machining operations defined on faces other than the top one (face 0) can be inserted in complementary programs that, when suitably programmed, can only be used on CNC processing centres.
1	7530468	bNest - Graphic editor for manual editing of nesting results* Not available with the guillotine-cut calculation method
1	7350907	Integration of the nesting cell with Winstore 3D K1 or 3D K2 automatic storage through high level interfacing with Supervisor* Requires the machine configured as nesting cell with type B loading system* Requires EC regulations* Requires the remote console or bPad* It does not include the supervisor* Requires the Fixed loading table or the Fixed loading table with belt conveyors or the Scissor Lift with table made of stratified phenolic and chain conveyors* Includes the adjustment of the safety fences of the nesting cell in line with the plant layout* Not compatible with full bumper safety systems
1	7550042	SOPHIA - IoT Connection
1	LS000001	Special execution n. 01