Baumer

Product overview. Format alignment.

Actuators and positioning drives,
spindle position displays, system components.



Edition 2016

Passion for Sensors

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Welcome
Smart solutions change the world



Precise format alignment, smart positioning –
Manual aligning operations are still common, what leaves a big potential for rationalization. Baumer developed a flexible positioning system with modular components to match the customers' demands regarding the individually required level of automation.

From basic spindle position displays to versatile actuators and positioning drives – the Baumer product portfolio evolved from practice.

For detailed information about our extensive product range and to learn more about Baumer innovations, please visit our website:

www.baumer.com/motion

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Table of contents

Introduction	■ Baumer and Motion Control ■ A wide selection of innovative products ■ Product selection and applications ■ System descriptions	2
Actuators and positioning drives	■ Actuators ■ Positioning drives	12
Spindle position displays	■ Small spindle position displays ■ Large spindle position displays	16
System components	■ Power tool with infrared interface ■ EC-motors ■ Memory controller for manual and automated format alignment ■ Gateway ■ Target displays	18
Baumer Group	■ Worldwide presence	20

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Baumer sets benchmarks

Our aim is always to be a step ahead of competition and to set innovative benchmarks. Quality has tradition at Baumer. High exactness and reliability characterize the sophisticated products and solutions devised for our customers. With an optimal market presence, many solutions result from the close collaboration and individual consultation of our customers at source. The mastery of the processes is the basis for consistent high quality, reliability, flexibility and economy. To continuously improve our business processes we combine lean management methods with Six Sigma. Our claim:

- High degree of innovation
- Wide variety of products
- Outstanding application expertise
- Individual collaboration and partnership with the customers
- Comprehensive consultation and outstanding service worldwide

Industries

- Automotive Assembly
- Chemical, Petrochemical
- Drive Technology
- Electronic Production
- Escalator / Elevator
- Food, Beverage, Semi-luxury Goods
- Graphical Machinery
- Handling and Robotics
- Injection Molding, Die Casting
- Machine Tools
- Medical Industry
- Packaging industrie
- Pharmaceutical, Bio Technology
- Semiconductor Industry
- Textile Machinery
- Transportation
- Water, Energy, Mining
- Warehouse and Logistics
- Wind Power Plants
- Wood Machinery









A wide selection of innovative products and solutions for precise positioning.



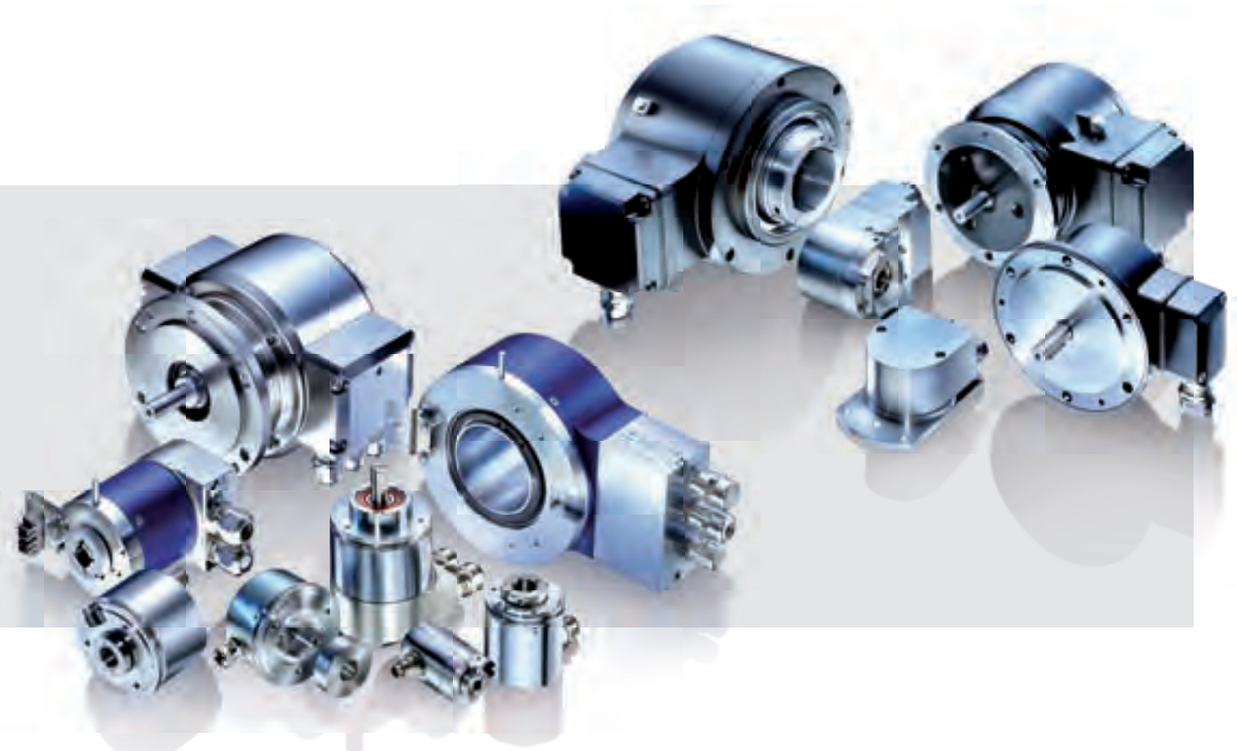


Products for precise format alignment
All Baumer products for precise shaft alignment have one thing in common: They are based on latest technologies and the industry expert know-how that Baumer acquired in the various product segments. Absolute sensing principles combined with latest interface technology are the cornerstones for versatile positioning systems. Typical applications for format alignments can be found in industry automation like wood processing, printing and packaging machines as well as in the paper industry.

- Actuators
- Positioning drives
- Spindle position displays
- Memory controller
- Gateways
- Target displays
- Power-tool with infrared interface
- EC-DC motors

Motion Control
The expert know-how in the field of position detection compiled over many decades has created innovative and practice-oriented innovations and product enhancements in all segments of the Baumer portfolio. More brand-new, smart automation solutions evolve continuously, from incremental encoders up to absolute encoders with reliable operation even in underwater applications. In this context utmost precision, improved robustness, versatile configurations and mounting options, different operating principles as well as the comprehensive interface variety play a significant role.





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MDBA
- Actuator
- Incremental position detection
- Brush-type DC motor, max. 23 W
- Input for clockwise or counter-clockwise rotation



MSQA
- Actuator
- Quasi-absolute position detection
- Brush-type DC motor, max. 44 W
- CANopen
- Programmable digital inputs



MSBA
- Actuator
- Absolute position detection
- Brush-type DC motor, max. 23 W
- CANopen
- Programmable digital inputs



MSIA
- Positioning drive
- Absolute position detection
- Brush-type DC motor, max. 238 W
- CANopen / Profibus
- Programmable digital inputs



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Format alignment
FlexiDrive enables fully automated alignment of shafts and stop positions with minimized machine setup times.



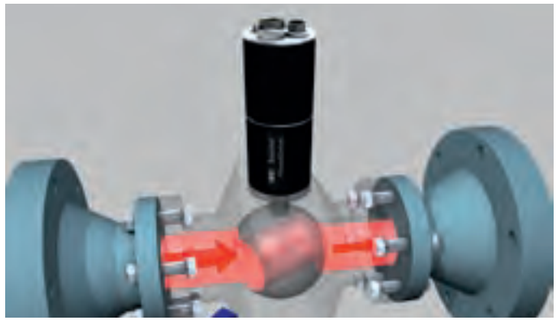
Cutting system
FlexiDrive ensures maximum process reliability by consistent tracking and alignment of cutter and cutting units for optimum results and minimized wear.



Hand crank replacement
Replacing a hand crank, FlexiDrive ensures repeatable machine editing cycles and consistent quality – also in case of machine retrofit.



Flow control
FlexiDrive applied at dosing valves for flow control to safeguard the correct volume stream.



Spindle position displays and system components
Product selection

Position displays for manual alignment
Position displays are of valuable help to the operator in manual aligning of spindle positions during machine setup. The position displays are available in two configurations, for small shaft diameters up to 14 mm and for large shafts of maximum 25 mm diameter.
- N 140 – spindle position display for large shaft diameters
- N 150 – spindle position display for small shaft diameters



Position displays in combination with power tool – AccuDrive
The professional ASMIR power tool enables mobile aligning operations and makes hand cranks superfluous. Power tool and spindle position display communicate via infrared interface and the status LED (red/green) signals the operator which shaft is next to be aligned.
- N 143 – spindle position display for large shaft diameters
- N 153 – spindle position display for small shaft diameters
- ASMIR – power tool with infrared interface



Position displays for automated format alignment
The multiconDrive system does not require any hand wheels, hand cranks nor power tool since the position displays are directly networked to the positioning drives. At the touch of a button, the shafts are automatically aligned with pinpoint accuracy to the predefined target value.
- N 142 – spindle position display for large shaft diameters
- N 152 – spindle position display for small shaft diameters
- BG440/BG650 – EC-DC motor



System components
The memory controller intended for front installation serves as data memory and operating unit.
The spindle position displays are networked to the fieldbus-capable control by gateway.
Target displays that indicate the positioning values right at the shaft to be aligned complete the multicon system.
- N 242 – memory controller
- GK473 – gateway
- N 155 – target display



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Spindle position displays and system components
Applications

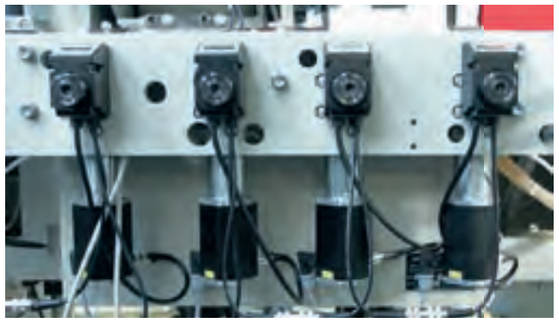
Position displays for manual alignment
The multicon system opens up new possibilities for potential cost reduction and simplified handling. Neither PC nor PLC are required. Small, sophisticated position displays in combination with compact controllers will lead the operator to the correct target positions. Often manual positioning operations are combined with motive alignments.



Position displays in combination with power tool – AccuDrive
Multicon AccuDrive is a cost-efficient system for mobile shaft alignments without hand cranks. Reduced machine setup times and improved system reliability by elimination of editing errors are some of the key arguments. The electric commutated power tool ASMIR is a mobile actuator that communicates with the spindle position displays via infrared interface - a perfect solution for the confined space that prevails at packaging machines.



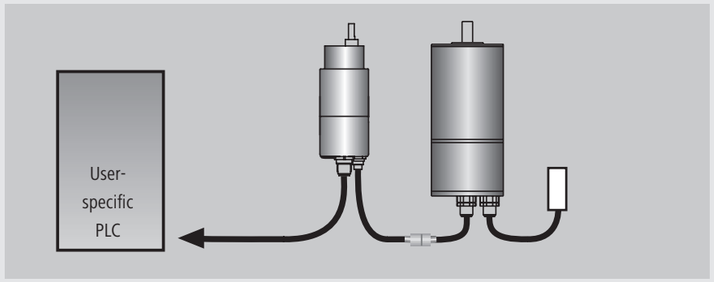
Position displays for automated format alignment
The multiconDrive system makes hand wheels and hand cranks superfluous. The position displays are directly networked to the positioning drive that is aligned to the predefined target with pinpoint accuracy. Automated loops for tolerance compensation and many more configurable parameters are a valuable help to simplify the machine editing process.



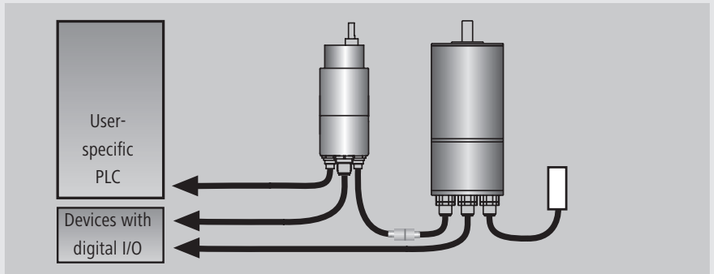
System components
The wide selection of system components enables networking to master controls, for example using the fieldbus gateway. Utilized in combination with the compact N 242 master the multicon system is even a stand-alone solution. The user-friendly memory controller provides practice-oriented operator guidance and serves as memory unit for the format-specific shaft positions.



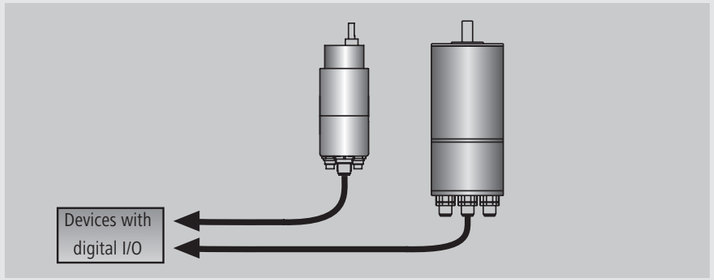
Networked to the control
FlexiDrive enables implementation in CANopen or Profibus-DP bus systems.



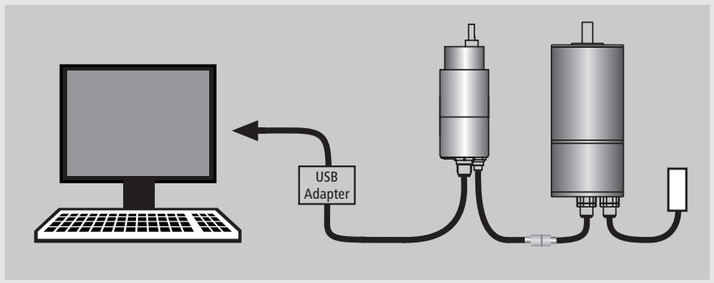
Networked to the control and the digital inputs
Supplementary to bus communication, FlexiDrive is capable of receiving control commands via the digital inputs.



Stand-alone operation
FlexiDrive devices can be triggered by digital inputs, without control interference.

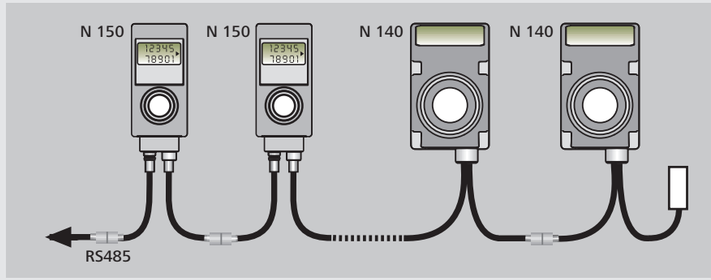


Networked to PC
Easy drive configuration by PC software.

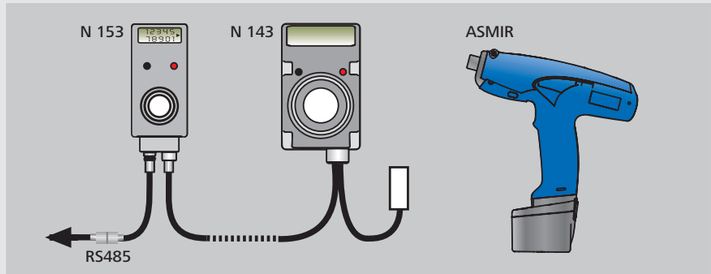


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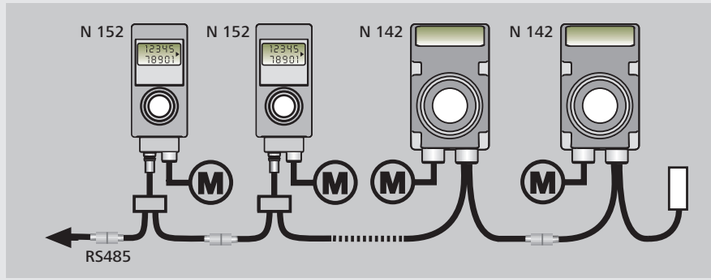
Position displays for manual aligning operations
The N 140 or N 150 spindle position displays can be networked to our memory controller N 242 or to a user-specific control using the RS485 bus interface or the gateway.



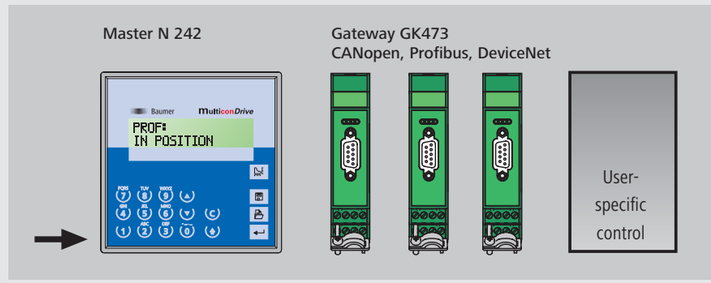
Mobile shaft alignment by power tool
The infrared interface is the communication link between the N 153 or N 143 spindle position displays and the electric commutated power tool ASMIR for particularly cost-efficient, half-automated shaft alignments.



Position displays for automated shaft alignment
The BG440/BG650 DC motors enable manual or automated positioning via the control by the help of N 142 or N 152 spindle position displays.



System components
Master N 242 for practice-oriented stand-alone solutions that allow easy implementation in complex machine controls with the help of GK473 gateway.



Actuators



Actuators

- Incremental outputs or CANopen
- Incremental, quasi-absolute or absolute position detection integrated
- DC motor, brush-type
- Minimized space consumption and simplified cabling
- Cost-efficient solution for non-continuous automated format aligning operations







Model	MDBA 42	MSBA 42	MSQA 46 I36		MSQA 46 G42	MSQA 46 G62		
Features	- Actuator / input for cw and ccw run - Brush-type DC motor - Incremental position sensing - Nominal power output 20 W - Output push-pull, short-circuit-proof	- Actuator / CANopen - Brush-type DC motor - Absolute position detection - Nominal power output 20 W - 2 inputs programmable	- Actuator / CANopen - Brush-type DC motor - Quasi-absolute position detection - Nominal power output 6 W - 2 inputs programmable		- Actuator / CANopen - Brush-type DC motor - Quasi-absolute position detection - Nominal power output 20 W - 2 inputs programmable	- Actuator / CANopen - Brush-type DC motor - Quasi-absolute position detection - Nominal power output 44 W - 2 inputs programmable		
Loop controller	No	Integrated position and speed regulator (1Q)	Integrated position and speed regulator (1Q)		Integrated position and speed regulator (1Q)	Integrated position and speed regulator (1Q)		
Voltage supply	24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %		24 VDC ±10 %	24 VDC ±10 %		
Nominal torque	0.09 Nm	0.09 Nm	0.2 Nm (i = 18) 0.4 Nm (i = 90)		0.063 Nm	0.153 Nm		
Nominal speed	2700 rpm	2700 rpm	280 rpm (i = 18) 64 rpm (i = 90)		3000 rpm	2800 rpm		
Nominal power output	20 W	20 W	6 W		20 W	44 W		
Positioning resolution motor	90 ° (4-times evaluation)	45 °	90 °		90 °	90 °		
Number of turns	-	536 mio / 29 bit	1073 mio / 30 bit		1073 mio / 30 bit	1073 mio / 30 bit		
Interface	-	CANopen	CANopen		CANopen	CANopen		
Inputs	-	2 digitally programmable	2 digitally programmable		2 digitally programmable	2 digitally programmable		
Service life	3000 h	3000 h	300 h		3000 h	3000 h		

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Positioning drives



Positioning drives

- Integrated 4Q position regulator to reduce the processing work for the control
- CANopen / Profibus-DP
- Absolute position detection, no reference cycle required
- Brushless DC motor
- Extended service life for frequent positioning and aligning operations















Model	MSIA 42	MSIA 53	MSIA 68		MSIA 83	MSIA 68 spur gear transmission	MSIA 68 bevel gear transmission W3	MSIA 68 bevel gear transmission V6
Features	- Positioning drive with/without planetary gears - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 36 W	- Positioning drive with/without planetary gears - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 26 W	- Positioning drive with/without planetary gears - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 80 W		- Positioning drive with/without planetary gears - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 144 W	- Positioning drive with spur gear transmission - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 80 W	- Positioning drive with worm gear transmission bevel geared shaft - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 80 W	- Positioning drive with worm gear transmission bevel geared shaft - CANopen / Profibus-DP - Brushless DC motor - Absolute multiturn position detection - Nominal power output 80 W
Loop controller	Integrated position and speed regulator (4Q)	Integrated position and speed regulator (4Q)	Integrated position and speed regulator (4Q)		Integrated position and speed regulator (4Q)	Integrated position and speed regulator (4Q)	Integrated position and speed regulator (4Q)	Integrated position and speed regulator (4Q)
Voltage supply	24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %		24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %
Nominal torque	0.08 Nm	0.058 Nm	0.195 Nm		0.38 Nm	0.195 Nm	0.195 Nm	0.195 Nm
Nominal speed	4400 rpm	4000 rpm	3900 rpm		3600 rpm	3900 rpm	3900 rpm	3900 rpm
Nominal power output	36 W	26 W	80 W		144 W	80 W	80 W	80 W
Positioning resolution motor	0.02 °	0.02 °	0.02 °		0.02 °	0.02 °	0.02 °	0.02 °
Number of turns	262144 / 18 bit	262144 / 18 bit	262144 / 18 bit		262144 / 18 bit	262144 / 18 bit	262144 / 18 bit	262144 / 18 bit
Interface	CANopen / Profibus-DP	CANopen / Profibus-DP	CANopen / Profibus-DP		CANopen / Profibus-DP	CANopen / Profibus-DP	CANopen / Profibus-DP	CANopen / Profibus-DP
Inputs	4 digitally programmable	4 digitally programmable	4 digitally programmable		4 digitally programmable	4 digitally programmable	4 digitally programmable	4 digitally programmable
Service life	10000 h (without gear)	20000 h (without gear)	20000 h (without gear)		20000 h (without gear)	20000 h (without gear)	20000 h (without gear)	20000 h (without gear)

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Spindle position displays



Spindle position displays

- Absolute multiturn measuring system
- Hollow shaft ø14 mm, ø20 mm or ø25 mm
- Actual value and target display
- Manual or automated format alignments
- Mobile format alignment by power tool
- Measuring range -99.99...+999.99 or -999.99...+9999.99 mm
- Resolution 1440 or 2304 steps/turn at ±4096 turns
- Interface RS485



Model	N 150	N 152	N 153		N 140	N 141	N 142	N 143
Features	- Manual format alignment - Hollow shaft max. ø14 mm - Resolution: 1440 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines - Absolute multiturn measuring system	- Automated format alignment - Two keys for format alignment touch by touch - Hollow shaft max. ø14 mm - Resolution: 1440 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines	- Infrared interface for format alignment by power tool - Two keys for format alignment touch by touch - Hollow shaft max. ø14 mm - Resolution: 1440 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines		- Manual format alignment - Hollow shaft ø20 mm / ø25 mm - Resolution: 2304 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines - Absolute multiturn measuring system	- Manual format alignment - Button for display running value/ tool radius - Hollow shaft ø20 mm / ø25 mm - Resolution: 2304 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines	- Automated format alignment - Two keys for format alignment touch by touch - Hollow shaft ø20 mm / ø25 mm - Resolution: 2304 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines	- Infrared interface for format alignment by power tool - Two keys for format alignment touch by touch - Hollow shaft ø20 mm / ø25 mm - Resolution: 2304 steps/revolution ±4096 revolutions - Display: LCD backlit, two lines
Voltage supply	24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %		24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %	24 VDC ±10 %
Current consumption	≤30 mA	≤40 mA	≤40 mA		≤30 mA	≤30 mA	≤40 mA	≤40 mA
Steps per turn	1440	1440	1440		2304	2304	2304	2304
Number of turns	4096 / 12 bit	4096 / 12 bit	4096 / 12 bit		4096 / 12 bit	4096 / 12 bit	4096 / 12 bit	4096 / 12 bit
Interface	RS485 (ASCII protocol)	RS485 (ASCII protocol)	RS485 (ASCII protocol)		RS485 (ASCII protocol)	RS485 (ASCII protocol)	RS485 (ASCII protocol)	RS485 (ASCII protocol)
Measuring range	-99.99...+999.99 mm -9.999...+99.999 inch	-99.99...+999.99 mm -9.999...+99.999 inch	-99.99...+999.99 mm -9.999...+99.999 inch		-999,99...+9999,99 mm -99.999...+999.999 inch	-999,99...+9999,99 mm -99.999...+999.999 inch	-999,99...+9999,99 mm -99.999...+999.999 inch	-999,99...+9999,99 mm -99.999...+999.999 inch
Hollow shaft	ø14 mm	ø14 mm	ø14 mm		ø20 mm ø25 mm	ø20 mm ø25 mm	ø20 mm ø25 mm	ø20 mm ø25 mm
Operating speed	≤600 rpm	≤600 rpm	≤600 rpm		≤600 rpm	≤600 rpm	≤600 rpm	≤600 rpm
Dimensions W x H x L	37 x 75 x 45 mm	37 x 75 x 45 mm	37 x 75 x 45 mm		56 x 100 x 62.5 mm	56 x 100 x 62.5 mm	56 x 100 x 62.5 mm	56 x 100 x 62.5 mm

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Memory controller and system components



Memory controller and system components

- Memory Controller - manual or automated format alignment
- Gateway with CANopen, DeviceNet or Profibus-DP
- Target display for manual format aligning

			
Model	N 242	GK473	N 155
Features	- Memory controller for manual and automatic format alignment - Display: LCD backlit, two lines alphanumeric, multilingual - Programming and memory unit - Memory for 100 formats with max. 32 position displays - Interface RS485	- Fieldbus gateway for CANopen, DeviceNet, Profibus - Operation mode status indicator by LED´s - Interface RS485 - Auto-Check functions	- Target display for manual format aligning - One key permanently assigned as target - Display: LCD backlit, two lines - Actual value and target display - Interface RS485
Voltage supply	85...265 VAC (50/60 Hz)	12...24 VDC	24 VDC ±10 %
Current consumption	≤1000 mA	≤200 mA	≤30 mA
Interface	RS485 (ASCII protocol)	CANopen DeviceNet Profibus-DPV0	RS485 (ASCII protocol)
Operation / keypad	10 figure keypad with 8 function keys	-	Membrane with one softkey (handshake)
Display	LCD-TFT, 2-lines, backlit, alphanumeric	4 LED´s as operating status indicators	LCD, 7-segment display, 2-lines, backlit
Protection DIN EN 60529	IP 65	IP 20	IP 65
Housing type	Housing for control panel installation	DIN rail housing EN 50022	Surface mount housing with mounting plate
Dimensions W x H x L	144 x 144 x 116.5 mm	22.6 x 99 x 114.5 mm	37 x 75 x 29 mm

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System components

- Industrial power tool for mobile format alignment
- Brushless EC motor for automated format alignment

			
Model	ASMIR	BG440	BG650
Features	- Brushless industrial power tool - With integrated rotation speed electronics - Torque 6 Nm - Communication via infrared interface	- Brushless DC-motor - With integrated rotation speed electronics - Nominal power 20 W or 40 W - Direct connection to spindle position display	- Brushless DC-motor - With integrated rotation speed electronics - Nominal power 65 W, 100 W or 140 W - Direct connection to spindle position display
Voltage supply	9.6 V	24 (20...30) VDC	24 (20...30) VDC
Nominal current	-	1.5 A 2.8 A	4 A 5.6 A 7.8 A
Nominal rating	-	20 W 40 W	65 W 100 W 140 W
Interface	Infrared	-	-
Operating speed	≤90 rpm ≤12 rpm	≤72 rpm ≤4 rpm	≤72 rpm ≤4 rpm
Permanent torque	≤6 Nm	≤2.4 Nm (with 20 W) ≤4.4 Nm (with 40 W)	≤8 Nm (with 65 W) ≤12 Nm (with 100 W) ≤16 Nm (with 140 W)
Protection DIN EN 60529	IP 20	IP 54	IP 54

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