

PRODUCT COMPARISON



TECHNICAL FEATURES AND CONFIGURATION - STANDARD PRESETTER SERIES -

LEGEND: ● available ○ optional – not available

E346B E346BV E346BA E356B E46B E46BA E46BP E46C E46CA E46CX E68B E68BP E68CX

GENERAL FEATURES

Measuring range (diameter and height in mm)	360 x 460	360 x 460	360 x 460	360 x 560	400 x 600	400 x 600	400 x 600	400 x 600	400 x 600	400 x 600	600 x 800	600 x 800	600 x 800
Natural granite base and column	●	●	●	●	●	●	●	●	●	●	●	●	●
Steel base (3+1 adjustable feet)	●	●	●	●	●	●	●	●	●	●	●	●	●
Linear guideways (2 X axis, 1 Z axis) with double recirculating ball bearings slides	●	●	●	●	●	●	●	●	●	●	●	●	●
Pneumatic axis movement unlock	–	–	–	–	●	●	●	●	●	●	–	–	–
Motorized axis movement	–	–	–	–	–	–	●	–	–	●	●	●	●
Manual gross movement	●	●	●	●	●	●	●	●	●	●	–	–	–
Manual fine adjustment	●	●	●	●	●	●	–	●	●	–	–	–	–
Motorized fine adjustment	–	–	–	–	–	–	●	–	–	●	●	●	●
ECN AS371 certified optical scales (resolution 1µm)	●	●	●	●	●	●	●	●	●	●	–	–	–
ECN GS371 certified optical scales (resolution 1µm)	–	–	–	–	–	–	–	–	–	–	●	●	●
Vertical Touch Screen Monitor	TFT 15,6"	TFT 15,6"	TFT 15,6"	TFT 15,6"	TFT 15,6" Full HD	TFT 15,6" Full HD	TFT 15,6" Full HD	TFT 21,5" Full HD	TFT 21,5" Full HD	TFT 21,5" Full HD	TFT 15,6" Full HD	TFT 15,6" Full HD	TFT 21,5" Full HD
Keyboard and mouse	○	○	○	○	○	○	○	●	●	●	●	●	●
Label printer	○	○	○	○	○	○	○	○	○	○	○	○	○
Label printer side support	–	–	–	–	○	○	○	●	●	●	–	–	–
Spindles side support (1 for 2 spindles)	–	–	–	–	○	○	○	●	●	●	●	●	●
Additional spindles side support	–	–	–	–	○	○	○	○	○	○	○	○	○
Overall dimensions (mm)	L958xH974xP441	L958xH974xP443	L958xH974xP458	L958xH1114xP441	L1136xH1935xP568			L1179xH1935xP568			L1748,5xH2217 (2417)xP717,1		
Weight (kg)	105			108	230			230			570		

SPINDLE FEATURES

Interchangeable spindle (ISO,BT,CAT, HSK, Polygonal taper, etc.)	○	○	○	○	○	○	○	○	○	○	○	○	○
Spindle identification system (SP-ID)	–	–	●	–	–	●	●	●	●	●	–	●	●
Spindle mechanical index (0°-90°-180°-270°)	–	–	–	–	●	–	–	●	–	–	●	–	–
C axis visualization	–	–	●	–	○	●	●	○	●	●	–	●	●
Automatic spindle rotation and electronic index	–	–	●	–	–	●	●	–	●	●	–	●	●
Manual spindle brake	●	●	–	●	–	–	–	–	–	–	–	–	–
Pneumatic spindle brake	–	–	●	–	●	●	●	●	●	●	●	●	●
Vacuum tool holder clamping (DIN69872, ISO7388, MAS403)	–	●	–	–	–	–	–	–	–	–	–	–	–
Manual tool holder clamping (HSK, Polygonal taper)	●	●	●	●	–	–	–	–	–	–	–	–	–
Motorized mechanical tool holder clamping (standard pull stud DIN69872, ISO7388, MAS403)	–	–	–	–	●	●	●	●	●	●	●	●	●
Motorized mechanical tool holder clamping (HSK, Polygonal taper)	–	–	–	–	●	●	●	●	●	●	●	●	●

CAMERA SYSTEM FEATURES

Bi-telecentric optical lenses	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbo Controlli NIKKEN camera system measuring range (mm)	7,6 x 7,2	7,6 x 7,2	7,6 x 7,2	7,6 x 7,2	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10
Monochromatic C-MOS sensor USB 2.0 connection	●	●	●	●	–	–	–	–	–	–	–	–	–
Monochromatic C-MOS sensor USB 3.0 Super speed connection	–	–	–	–	●	●	●	●	●	●	●	●	●
Elbo Controlli NIKKEN camera system resolution	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm	1 µm
Elbo Controlli NIKKEN camera system magnification	25 x	25 x	25 x	25 x	18 x	18 x	18 x	25 x	25 x	25 x	18 x	18 x	25 x
Analogic and digital camera view	●	●	●	●	●	●	●	●	●	●	●	●	●
Digital zoom (4x)	●	●	●	●	●	●	●	●	●	●	●	●	●
Tool inspection function	●	●	●	●	●	●	●	●	●	●	●	●	●
Resizable camera area	●	●	●	●	●	●	●	●	●	●	●	●	●

LEGEND: ● available ○ optional - not available

E346B E346BV E346BA E356B E46B E46BA E46BP E46C E46CA E46CX E68B E68BP E68CX

SOFTWARE AND MEASURING FUNCTIONS

Embedded Elbo Controlli NIKKEN operating system Linux based	●	●	●	●	●	●	●	●	●	●	●	●	●
Elbo Controlli NIKKEN machine software B version (blue screen)	●	●	●	●	●	●	●	-	-	-	●	●	-
Elbo Controlli NIKKEN machine software C version (yellow screen)	-	-	-	-	-	-	-	●	●	●	-	-	●
Number of machine origins / number of tool sets	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞
Multi-origin function for multitasking machines	●	●	●	●	●	●	●	●	●	●	●	●	●
Manual measure function with fixed reticle	●	●	●	●	●	●	●	●	●	●	●	●	●
Autotargeting measure function	●	●	●	●	●	●	●	●	●	●	●	●	●
Autotargeting measure function with dimension freeze	●	●	●	●	●	●	●	●	●	●	●	●	●
Collimation indicators for fixed reticle measure	●	●	●	●	●	●	●	●	●	●	●	●	●
On-screen automatic measure of tool corner radius & theoretical centre point	●	●	●	●	●	●	●	●	●	●	●	●	●
On-screen automatic measure of tool corner angle & theoretical intersection	●	●	●	●	●	●	●	●	●	●	●	●	●
Chamfer measuring function	●	●	●	●	●	●	●	●	●	●	●	●	●
Adjustable Area of Interest (AOI)	●	●	●	●	●	●	●	●	●	●	●	●	●
Automatic spindle rotation and measurement of tool edges	-	-	●	-	-	●	●	-	●	●	-	●	●
Presetter automation software for tool presetting (1 step)	-	-	-	-	-	-	●	-	-	●	-	●	●
Presetter automation software for tool presetting (unlimited step)	-	-	-	-	-	-	-	-	-	●	-	-	●
Software for manual tool presetting and geometry check	●	●	●	●	●	●	●	●	●	●	●	●	●
Presetter automation software for tool presetting and geometry check (full CN)	-	-	-	-	-	-	-	-	-	●	-	-	●

GRAPHIC FUNCTIONS

Adjustable reticles (axis and circles)	●	●	●	●	●	●	●	●	●	●	●	●	●
Profile image capture function	●	●	●	●	●	●	●	●	●	●	●	●	●
Automatic geometry (1 geometric entity)	●	●	●	●	●	●	●	-	-	-	●	●	-
Automatic geometry (multiple geometric entity)	-	-	-	-	-	-	-	●	●	●	-	-	●
Geometry by points	●	●	●	●	●	●	●	●	●	●	●	●	●
Camera image capture	●	●	●	●	●	●	●	●	●	●	●	●	●
DXF files import and comparison with tool	●	●	●	●	●	●	●	●	●	●	●	●	●
Manual DXF acquisition of the revolution profile	-	-	-	-	-	-	-	●	●	●	-	-	●
Automatic DXF acquisition of the revolution profile	-	-	-	-	-	-	-	-	●	●	-	-	●

CONNECTION AND INTEGRATION FUNCTIONS

USB ports (4)	●	●	●	●	●	●	●	●	●	●	●	●	●
LAN connection	●	●	●	●	●	●	●	●	●	●	●	●	●
Wi-Fi connection	-	-	-	-	-	-	-	●	●	●	-	-	●
Standard post processor	●	●	●	●	●	●	●	●	●	●	●	●	●
Customized post processor	○	○	○	○	○	○	○	○	○	○	○	○	○
TID (Tool Identification system)	○	○	○	○	○	○	○	○	○	○	○	○	○
TTS (Tool Tracking System)	○	○	○	○	○	○	○	○	○	○	○	○	○
RF-ID tool identification	○	○	○	○	○	○	○	○	○	○	○	○	○
TP32 software ready (double monitor and dedicated PC)	-	-	-	-	○	○	○	○	○	○	○	○	○

TECHNICAL FEATURES AND CONFIGURATION - MULTICAMERA PRESETTER SERIES -

LEGEND: ● available ○ optional – not available

E46BT1 E46BAT1 E46CAT1 E46CAT2 E46CAT3 E46CAT4 E68CXT3

E46BT1 E46BAT1 E46CAT1 E46CAT2 E46CAT3 E46CAT4 E68CXT3

GENERAL FEATURES							
Measuring range (diameter and height in mm)	320 x 600	320 x 600	320 x 600	280(120) x 600	320 x 600	200(80) x 600	600 x 800
Natural granite base and column	●	●	●	●	●	●	●
Steel base (3+1 adjustable feet)	●	●	●	●	●	●	●
Linear guideways (2 for X axis, 1 for Z axis) with double recirculating ball bearings slides	●	●	●	●	●	●	●
Pneumatic axis movement unlock	●	●	●	●	●	●	–
Motorized axis movement	–	–	–	–	–	–	●
Manual gross movement	●	●	●	●	●	●	–
Manual fine adjustment	●	●	●	●	●	●	–
Motorized fine adjustment	–	–	–	–	–	–	●
ECN AS371 certified optical scales (resolution 1µm)	●	●	●	●	●	●	–
ECN GS371 certified granite optical scales (resolution 1µm)	–	–	–	–	–	–	●
Vertical touch-screen monitor	TFT 15,6" Full HD	TFT 15,6" Full HD	TFT 21,5" Full HD	TFT 21,5" Full HD	TFT 21,5" Full HD	TFT 21,5" Full HD	TFT 21,5" Full HD
Keyboard and mouse	●	●	●	●	●	●	●
Label printer	○	○	○	○	○	○	○
Label printer side support	○	○	●	●	●	●	–
Spindles side support (1 for 2 spindles)	○	○	●	●	●	●	●
Additional spindles side support	○	○	○	○	○	○	○
Overall dimensions (mm)	L1179xH1935xP568						1748x2217x717
Weight (kg)	230						575

SPINDLE FEATURES							
Interchangeable spindle (ISO, BT, CAT, HSK, Polygonal taper, etc.)	○	○	○	○	○	○	○
Spindle identification system (SP-ID)	–	●	●	●	●	●	●
Spindle mechanical index (0°-90°-180°-270°)	●	–	–	–	–	–	–
C axis visualization	○	●	●	●	●	●	●
Automatic spindle rotation and electronic index	–	●	●	●	●	●	●
Pneumatic spindle brake	●	●	●	●	●	●	●
Motorized mechanical tool holder clamping (standard pull stud DIN69872, ISO7388, MAS403)	●	●	●	●	●	●	●
Motorized mechanical tool holder clamping (HSK, Polygonal taper)	●	●	●	●	●	●	●

CAMERA SYSTEM FEATURES							
Digital zoom (4 x)	●	●	●	●	●	●	●
Resizable camera area	●	●	●	●	●	●	●
MAIN CAMERA	●	●	●	●	●	●	●
Bi-telecentric lens	●	●	●	●	●	●	●
Elbo Controlli NIKKEN camera system measuring range (mm)	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10	10 x 10
Elbo Controlli NIKKEN camera system magnification	18 x	18 x	25 x	25 x	25 x	25 x	25 x
Tool measurement function	●	●	●	●	●	●	●
Tool inspection function	●	●	●	●	●	●	●
MICRO CAMERA	–	–	–	●	–	●	–
Elbo Controlli NIKKEN camera system measuring range (mm)	–	–	–	2,8 x 2,8	–	2,8 x 2,8	–
Elbo Controlli NIKKEN camera system magnification	–	–	–	90 x	–	90 x	–
Tool measurement function	–	–	–	●	–	●	–
Tool inspection function	–	–	–	●	–	●	–
SIDE CAMERA	●	●	●	–	●	●	●
Elbo Controlli NIKKEN camera system measuring range (mm)	4 x 4	4 x 4	4 x 4	–	4 x 4	4 x 4	4 x 4
Elbo Controlli NIKKEN camera system magnification	44 x	44 x	60 x	–	60 x	60 x	60 x
Tool measurement function	–	–	–	–	–	–	–
Tool inspection function	●	●	●	–	●	●	●

CAMERA SYSTEM FEATURES							
TOP CAMERA	–	–	–	–	●	●	●
Elbo Controlli NIKKEN camera system measuring range (mm)	–	–	–	–	4 x 4	4 x 4	4 x 4
Elbo Controlli NIKKEN camera system magnification	–	–	–	–	60 x	60 x	60 x
Tool measurement function	–	–	–	–	–	–	–
Tool inspection function	–	–	–	–	●	●	●

SOFTWARE AND MEASURING FUNCTIONS							
Embedded ECN operating system Linux based	●	●	●	●	●	●	●
ECN machine software B version (blue screen)	●	●	–	–	–	–	–
ECN machine software C version (yellow screen)	–	–	●	●	●	●	●
Number of machine origins / number of tool sets	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞	∞ / ∞
Multi-origin function for multitasking machines	●	●	●	●	●	●	●
Manual measure function with fixed reticle	●	●	●	●	●	●	●
Autotargeting measure function	●	●	●	●	●	●	●
Autotargeting measure function with dimension freeze	●	●	●	●	●	●	●
Collimation indicators for fixed reticle measure	●	●	●	●	●	●	●
On-screen automatic measure of tool corner radius & theoretical centre point	●	●	●	●	●	●	●
On-screen automatic measure of tool corner angle & theoretical intersection	●	●	●	●	●	●	●
Chamfer measuring function	●	●	●	●	●	●	●
Adjustable Area of Interest (AOI)	●	●	●	●	●	●	●
Automatic spindle rotation and measurement of tool edges	–	●	●	●	●	●	●
Presetter automation software for tool presetting (1 step)	–	–	–	–	–	–	●
Presetter automation software for tool presetting (unlimited steps)	–	–	–	–	–	–	●
Software for manual tool presetting and geometry control	●	●	●	●	●	●	●
Presetter automation software for tool presetting and geometry check (full CN)	–	–	–	–	–	–	●

GRAPHICAL FUNCTIONS							
Adjustable reticles (axis and circles)	●	●	●	●	●	●	●
Profile image capture function	●	●	●	●	●	●	●
Automatic geometry (1 geometric entity)	●	●	–	–	–	–	–
Automatic geometry (multiple geometric entity)	–	–	●	●	●	●	●
Geometry by points	●	●	●	●	●	●	●
Camera image capture	●	●	●	●	●	●	●
DXF files import of the tool profile	●	●	●	●	●	●	●
Manual DXF acquisition of the revolution profile	–	–	●	●	●	●	●
Automatic DXF acquisition of the revolution profile	–	–	●	●	●	●	●

CONNECTION AND INTEGRATION FUNCTIONS							
USB ports (4)	●	●	●	●	●	●	●
LAN connection	●	●	●	●	●	●	●
Wi-Fi connection	–	–	●	●	●	●	●
Standard post processor	●	●	●	●	●	●	●
Customized post processor	○	○	○	○	○	○	○
TID (Tool identification system)	○	○	○	○	○	○	○
TTS (Tool Tracking System)	○	○	○	○	○	○	○
RF-ID tool identification	○	○	○	○	○	○	○
TP32 software ready (double monitor and dedicated PC)	○	○	○	○	○	○	○

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