SERIE X

STANDARD EQUIPMENT

- Hardened and ground high quality steel gears
- Speed plate and selecting levers on head front
- Depth scale and adjustable depth stop
- Thermodermal switch
- Emergency STOP push button
- Spindle reversing switch
- Machined base with coolant tank
- Worklight
- Fixed table
- Safety drill guard with microswitch
- CE mark

DIMENSIONS

Round column

<table>
<thead>
<tr>
<th>Model</th>
<th>SX - 34</th>
<th>AX - 34</th>
<th>BX - 34</th>
<th>SX - 40</th>
<th>AX - 40</th>
<th>BX - 40</th>
</tr>
</thead>
<tbody>
<tr>
<td>ø</td>
<td>32 mm</td>
<td>M 22</td>
<td>1.1 kw</td>
<td>150 mm</td>
<td>ø 125 mm</td>
<td>300 mm</td>
</tr>
<tr>
<td>480 x 480</td>
<td>255 x 200</td>
<td>125</td>
<td>125</td>
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</table>
**CHARACTERISTICS**

<table>
<thead>
<tr>
<th></th>
<th>SX-32</th>
<th>AX-32</th>
<th>BX-32</th>
</tr>
</thead>
<tbody>
<tr>
<td>Maximum drilling capacity in steel St. 50/60 [ø mm]</td>
<td>32</td>
<td>32</td>
<td>32</td>
</tr>
<tr>
<td>Maximum drilling capacity in cast iron 200 Brinell [ø mm]</td>
<td>35</td>
<td>35</td>
<td>35</td>
</tr>
<tr>
<td>Maximum tapping capacity in steel St. 50/60 [mm]</td>
<td>M 22</td>
<td>M 22</td>
<td>M 22</td>
</tr>
<tr>
<td>Maximum tapping capacity in cast iron 200 Brinell [mm]</td>
<td>M 27</td>
<td>M 27</td>
<td>M 27</td>
</tr>
<tr>
<td>Morse Taper MT [Nr.]</td>
<td>4</td>
<td>4</td>
<td>4</td>
</tr>
<tr>
<td>Maximum spindle stroke (drilling depth) [mm]</td>
<td>150</td>
<td>150</td>
<td>150</td>
</tr>
<tr>
<td>Main motor power [HP (Kw)]</td>
<td>1,5 (1,1)</td>
<td>0,10 (0,07)</td>
<td>0,10 (0,07)</td>
</tr>
<tr>
<td>Coolant pump motor power [HP (Kw)]</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Transmission</td>
<td>Gear box</td>
<td>Gear box</td>
<td>Gear box</td>
</tr>
<tr>
<td>Number of speeds</td>
<td>9</td>
<td>9</td>
<td>9</td>
</tr>
<tr>
<td>Motor at 1800 rpm 60 Hz 3Ph. (160-2220 rpm) [rpm]</td>
<td>-</td>
<td>-</td>
<td>-</td>
</tr>
<tr>
<td>Feed Manual</td>
<td>Automatic</td>
<td>Automatic</td>
<td>Automatic</td>
</tr>
<tr>
<td>Automatic feed range [mm/rev]</td>
<td>-</td>
<td>3</td>
<td>0,1-0,2-0,3</td>
</tr>
<tr>
<td>Worktable dimensions (LxW) [mm]</td>
<td>400x420</td>
<td>400x420</td>
<td>400x420</td>
</tr>
<tr>
<td>Column diameter [mm]</td>
<td>125</td>
<td>125</td>
<td>125</td>
</tr>
<tr>
<td>Distance from spindle centre to column face [mm]</td>
<td>300</td>
<td>300</td>
<td>300</td>
</tr>
<tr>
<td>Net weight [Kg]</td>
<td>385</td>
<td>400</td>
<td>410</td>
</tr>
<tr>
<td>Gross weight with packing [Kg]</td>
<td>435</td>
<td>450</td>
<td>460</td>
</tr>
<tr>
<td>Packing dimensions (length x width x height) [m]</td>
<td>2,3x0,6x1,1</td>
<td>2,34x0,61x1,16</td>
<td>2,34x0,61x1,16</td>
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</tbody>
</table>
STANDARD EQUIPMENT

- Hardened and ground high quality steel gears
- Speed plate and selecting levers on head front.
- Depth scale and adjustable depth stop
- Automatic tool ejector
- Emergency STOP push button
- Spindle reversing switch
- Electric equipment integrated on machine’s head
- Machined base with coolant tank
- Worklight
- MF: Fixed table for model 34
- MGI: Rotating and tilting table for model 40
- Safety drill guard with microswitch
- CE mark

Dimensions

<table>
<thead>
<tr>
<th>Model</th>
<th>Diameter</th>
<th>Motor</th>
<th>Headstock</th>
<th>Table</th>
<th>Drill Guard</th>
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<tbody>
<tr>
<td>SX - 32</td>
<td>Ø 34 mm</td>
<td>M 27</td>
<td>MT 4</td>
<td>125 mm</td>
<td>MGI</td>
</tr>
<tr>
<td>AX - 32</td>
<td>Ø 40 mm</td>
<td>M 33</td>
<td>MT 4</td>
<td>150 mm</td>
<td>MGI</td>
</tr>
<tr>
<td>BX - 32</td>
<td>ø 34 mm</td>
<td>1,5 Kw</td>
<td>MT 4</td>
<td>125 mm</td>
<td>MGI</td>
</tr>
<tr>
<td>SX - 40</td>
<td>Ø 34 mm</td>
<td>M 27</td>
<td>MT 4</td>
<td>125 mm</td>
<td>MGI</td>
</tr>
<tr>
<td>AX - 40</td>
<td>Ø 40 mm</td>
<td>M 33</td>
<td>MT 4</td>
<td>150 mm</td>
<td>MGI</td>
</tr>
<tr>
<td>BX - 40</td>
<td>ø 34 mm</td>
<td>2,2 Kw</td>
<td>MT 4</td>
<td>125 mm</td>
<td>MGI</td>
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</tbody>
</table>
## CHARACTERISTICS

<table>
<thead>
<tr>
<th></th>
<th>SX-34</th>
<th>AX-34</th>
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<tr>
<td>Maximum drilling capacity in cast iron 200 Brinell [ø mm]</td>
<td>40</td>
<td></td>
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<td></td>
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<tr>
<td>Maximum tapping capacity in steel St. 50/60 [mm]</td>
<td>M 27</td>
<td></td>
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<td>Morse Taper MT Nr.</td>
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<tr>
<td>Maximum spindle stroke (drilling depth) [mm]</td>
<td>150</td>
<td></td>
<td>180</td>
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</tr>
<tr>
<td>Main motor power [HP (Kw)]</td>
<td>2 (1,5)</td>
<td></td>
<td>3 (2,2)</td>
<td></td>
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<td>9</td>
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<tr>
<td>Speed range with motor at 1500 rpm 50 Hz 3Ph.</td>
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<td>Upon request:</td>
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<td></td>
</tr>
<tr>
<td>Feed</td>
<td>Manual</td>
<td>Automatic</td>
<td>Manual</td>
<td>Automatic</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Nr. of automatic feeds</td>
<td>-</td>
<td>3</td>
<td>-</td>
<td>3</td>
<td></td>
<td></td>
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<tr>
<td>Automatic feed range [mm/rev]</td>
<td>-</td>
<td>0,1-0,2-0,3</td>
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<td>0,1-0,2-0,3</td>
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</table>
### OPTIONAL EQUIPMENT

#### TABLES INCLUDING SUPPORTS

**MF**
Fixed table.
Standard for EK/T/Z/X(32-34) series.

**MGM**
Reversible rotating tiltable with vice.
Available for Z/X (32/34) series.

#### CROSS TABLES

**MB2**
Cross table.
X = 280 mm.
Y = 180 mm.
Table net weight = 40 kg.
Available for Z/X series.

**MB3**
Cross table.
X = 400 mm.
Y = 180 mm.
Table net weight = 52 kg.
Available for Z/X(32-34) series.

**MB4**
Cross table.
X = 500 mm.
Y = 250 mm.
Table net weight = 93 kg.
Available for Z/X/A/B/C series.

**MB5**
Cross table.
X = 700 mm.
Y = 250 mm.
Table net weight = 150 kg.
Available for Z/X(40)/A/B/C series.

#### TOOL HOLDERS

**DRILL-CHUCKS**
Self-centering drill-chuck from dia. 3 to dia. 16 Morse taper 3 & 4.
Available for all series.

**TAPHOLDER**
Morse taper, tapholder and tapping collets.

**REDUCING SLEEVES**
Self-centering drill-chuck from dia. 1 to 16 Morse taper 3-4 & 5.
Available for all series.
SPEED CONTROL / MEASURE / TAPPING

VE
Standard for Z(34-40), BC-40VE and BC-50VE.
Available for other models upon request.

TAK
Digital rpm counter.
Standard for Z (34-40) and C serie.
Available for other models upon request.

LBC
Depth scale read-out system.
Available for all series.

RS
Automatic feed reversing for tapping.
Standard for Z(34-40) y C serie.
Available for all series.

RPF
Automatic tapping cycle by lead screw system with brake motor for spindle reverse.
Available for X/A/B/P series.

HGP
Master guide spindle and nut set.
Available for X/A/B/P series.
OPTIONAL EQUIPMENT

SPEED CONTROL / MEASURE / TAPPING

**CN**
Pneumatic counterbalance for spindle return (recommended with multi-spindle head applications). Available for X/A/B/P series.

**ACNL**
Automatic drilling cycle with rapid approach, working feed and rapid retract. Available for B models on Z/X/B/P series.

**CI**
Integral drilling cycle with encoder (recommended for tube and profile drilling, deep drilling operations, etc.). Available for B models on Z/X/B/P series.

**HB**
Hydro-pneumatic power feed unit. Available for EK/T/Z/X series (only for manual feed models).

**CM**
Multi-spindle drilling heads with fixed or adjustable spindles. Available for all series.

**MQL**
Microlubrification system. Available for all series.
STANDARD ASSEMBLY FOR JOBS USING MULTI-SPINDLE HEADS

Accessories and functions

ACNL
Automatic drilling cycle with rapid approach, working feed and rapid retract, with additional pneumatic counterweight function for the multi-spindle head.

UC
Union, dragging cone and assembly of the multi-spindle head.

CM
Multi-spindle head with fixed or adjustable (see picture) spindles.

GM
Multi-spindle head guide rod.

PM
START/STOP and emergency STOP control extension.

SC
Column riser of 200 mm for greater distance between spindle nose and worktable.
**OPTIONAL EQUIPMENT**

**STANDARD VICES**

**SL-116**
Vise with fixed base (Light Series).
Maximum opening: 116 mm
Jaw width: 105 mm
Jaw height: 31,5 mm
Net weight: 8,5 kg.
Available for EK/T/Z/X/A/B/C series.

**SL-160**
Vise with fixed base (Light Series).
Maximum opening: 160 mm
Jaw width: 125 mm
Jaw height: 41,5 mm
Net weight: 4,7 kg.
Available for EK/T/Z/X/A/B/C series.

**FL-116**
Vise with fixed base.
Maximum opening: 116 mm
Jaw width: 100 mm
Jaw height: 31,5 mm
Net weight: 9 Kg.
Available for Z/X/A/B/C series.

**FL-157**
Vise with fixed base.
Maximum opening: 157 mm
Jaw width: 125 mm
Jaw height: 41,5 mm
Net weight: 15 Kg.
Available for Z/X/A/B/C series.

**RAPID CLOSE AND SELF-CENTERING VICES**

**FR-80**
Opening-cam rapid close vice.
Maximum opening: 80 mm
Jaw width: 80 mm
Jaw height: 20 mm
Net weight: 6 Kg.
Available for all series.

**FR-125**
Opening-cam rapid close vice.
Maximum opening: 125 mm
Jaw width: 125 mm
Jaw height: 30 mm
Net weight: 23 Kg.
Available for all series.

**FK-103**
Self-centering vice.
Maximum opening: 103 mm
Jaw width: 103 mm
Jaw height: 20 mm
Net weight: 12 Kg.
Available for all series.

**CHUCKS, FOOT PEDALS...**

**PL**
Manual jaw chuck.
Available for all series.

**PN**
Pneumatic jaw chucks.
Available for all series.

**PST**
Cycle or spindle turn START foot pedal.

**PSR**
Spindle turn reverse foot pedal (for tapping)
Available for all series.

**PEM**
Emergency STOP foot pedal.
Available for all series.