



PRODUCT CERTIFICATION  
BODY  
Notification of European Commission  
**NB 1802**

**CEPROM<sup>®</sup> S.A.**

440240 Satu Mare, str. Fântânele, Nr.23/A, Romania  
tel. +40.0361.804795; fax +40.0361.804796  
[www.ceprom.ro](http://www.ceprom.ro); e-mail: [ceprom@ceprom.ro](mailto:ceprom@ceprom.ro)

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CERTIFICATION



SR EN ISO/CEI 17065:2013  
ACCREDITATION CERTIFICATE  
ON 017

# EC TYPE-EXAMINATION CERTIFICATE

**No. 385-ET-12024.A1**

**Technical File no. 385-ET-12024.A1/KDT-2024002-A2**

**Applicant:**

**GUANGZHOU KDT MACHINERY  
GROUP CO., LTD.**

No.81 Ruixiang Street, Huangpu District,  
Guangzhou, China

**Manufacturer:**

**GUANGZHOU KDT MACHINERY  
GROUP CO., LTD.**

No.81 Ruixiang Street, Huangpu District,  
Guangzhou, China

**Description of product:**

Machine type: **ENGRAVING MACHINE**

Models: **See annex**

**Certification procedure: EC Type-Examination**

**Reference standards: EN ISO 12100:2010, EN ISO 19085-3:2021, EN 60204-1:2018**

Based on our assessment we confirm that the product is in accordance with the technical requirements of the above standards and hence fulfils the technical requirements of the

**Machinery Directive 2006/42/EC**

The manufacturer shall affix the CE marking to each product that is in conformity with those described in this EC type-Examination Certificate, after completion of the EC Declaration of Conformity and in accordance with the above directive.

This certificate is only valid for the product and configuration described (annex), in conjunction with the detailed test data and with all applicable legal requirement for the product.

Maintaining certification is based on compliance with the requirements of certification contract.

**Annex: Product identification –13 pages**

**Issuing Date: 11.04.2024**

**Update: 10.11.2025**

**Expiry Date: 10.04.2029**



**EUROPEAN UNION**  
Satu Mare, ROMANIA

**GENERAL MANAGER**  
**eng. Cristian SOPONOS**



**CEPROM-CERT Manager**  
**eng. Vasile ZELE**

E.S.

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ANNEX

to the EC type Examination Certificate No. 385-ET-12024.A1

PRODUCT IDENTIFICATION

The Product:

**ENGRAVING MACHINE**

\*models:

**KN-2409NL, KN-2409DL, KN-2510L, KN-2510DL, KN-2609L, KN-2609DL, KN-2710L, KN-2710DL, KN-2612L, KN-2612DL, KN-3410L, KN-3410DE, KN-3510DP, KN-3612DP, KN-3710DP, KN-3713DP, KN-3510P, KN-3612P, KN-3710P, KN-3713P, KD-6410K, KD-612KSF, KD-612KHF, KD-612KC, KD-612G, KD-612GHA, KD-610R, KD-610RH, KD-612RS, KD-612R, KD-612RH, KD-612RHS, KD-612RSF, KD-612RF, KD-612RHF, KD-612RHSF, KD-612KSZD, KD-612KSZDF, KD-612KSZDA, KD-612KSZDFA, KD-812HZA, KD-868HZA, KD-868E, D-868HE, KD-812ZA**

\*type assessed:

**KN-2409NL, Serial no. 5409240200952**

\*manufactured by:

**GUANGZHOU KDT MACHINERY GROUP CO., LTD.**

\*headquarters address: *No.81 Ruixiang Street, Huangpu District, Guangzhou, China*

\*place of manufacture: *No.81 Ruixiang Street, Huangpu District, Guangzhou, China*

\*domain of use: *This machine is mainly used for the routing, blanking of various types of artificial panel, solid wood panel, semi-solid wood panel.*

Technical File content:

- General description of the machinery;
- Specification with the constructive and functional characteristics;
- General drawing and drawings of the control circuits;
- Full detailed drawings required to check the conformity;
- Stability calculations;
- The documentation on risk assessment;
- The list of standards used;
- Technical report giving the results of the test;
- Instruction manual;
- Declaration of conformity;
- The internal measures implemented to ensure machinery conformity with MD.

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page 1/13

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.              | KN-2409NL      | KN-2409DL      | KN-2510L       | KN-2510DL      | KN-2609L       |
|-----------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Total Power                 | kW                | 22.5           | 24.7           | 30             | 32.2           | 30             |
| Machine Size<br>(L x W x H) | mm                | 3980*2160*2160 | 3980*2160*2160 | 4230*2460*2160 | 3980*2460*2160 | 3980*2730*2160 |
| Spindle Power               | kW                | 9              | 9              | 9              | 9              | 9              |
| Drill heads                 | -                 | -              | 10V            | -              | 10V            | -              |
| Tools numbers               | -                 | 12             | 12             | 12             | 12             | 12             |
| Table Size                  | mm                | 2850*1260      | 2850*1260      | 3100*1560      | 3100*1560      | 2850*1860      |
| Working size                | mm                | 2850*1260*60   | 2850*1260*60   | 3100*1560*60   | 3100*1560*60   | 2850*1860*60   |
| Max Moving<br>Speed X/Y/Z   | m/min             | 100/100/30     | 100/100/30     | 80/80/30       | 80/80/30       | 80/80/30       |
| Vacuum capacity             | m <sup>3</sup> /h | 250            | 250            | 250*2          | 250*2          | 250*2          |
| Servo power<br>X/Y/Z        | kW                | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  |
| Pressure                    | MPa               | 0.65           | 0.65           | 0.65           | 0.65           | 0.65           |
| Voltage                     | VAC               | 380            | 380            | 380            | 380            | 380            |

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page 2/13

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.              | KN-2609DL      | KN-2710L       | KN-2710DL      | KN-2612L       | KN-2612DL      |
|-----------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Total Power                 | kW                | 32.2           | 30             | 32.2           | 30             | 32.2           |
| Machine Size<br>(L x W x H) | mm                | 4230*2730*2160 | 4230*3050*2160 | 4230*3050*2160 | 4830*2730*2160 | 4830*2730*2160 |
| Spindle Power               | kW                | 9              | 9              | 9              | 9              | 9              |
| Drill heads                 | -                 | 10V            | -              | 10V            | -              | 10V            |
| Tools numbers               | -                 | 12             | 12             | 12             | 12             | 12             |
| Table Size                  | mm                | 2850*1860      | 3100*2150      | 3100*2150      | 3700*1860      | 3700*1860      |
| Working size                | mm                | 2850*1830*60   | 3100*2150*60   | 3100*2150*60   | 3700*1830*60   | 3700*1830*60   |
| Max Moving<br>Speed X/Y/Z   | m/min             | 80/80/30       | 80/80/30       | 80/80/30       | 80/80/30       | 80/80/30       |
| Vacuum<br>capacity          | m <sup>3</sup> /h | 250*2          | 250*2          | 250*2          | 250*2          | 250*2          |
| Servo power<br>X/Y/Z        | kW                | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  |
| Pressure                    | MPa               | 0.65           | 0.65           | 0.65           | 0.65           | 0.65           |
| Voltage                     | VAC               | 380            | 380            | 380            | 380            | 380            |

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page 3/13

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.              | KN-3410L       | KN-3410DE      | KN-3510DP      | KN-3612DP      | KN-3710DP      |
|-----------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Total Power                 | kW                | 23.5           | 26.1           | 31.6           | 31.6           | 31.6           |
| Machine Size<br>(L x W x H) | mm                | 4500*2430*2485 | 4500*2430*2485 | 4500*3120*2500 | 5100*2390*2500 | 4500*3710*2500 |
| Spindle Power               | kW                | 12             | 12             | 12             | 12             | 12             |
| Drill heads                 | -                 | -              | 10V            | 12V+8H+1S      | 12V+8H+1S      | 12V+8H+1S      |
| Tools numbers               | -                 | 12             | 12             | 16             | 16             | 16             |
| Table Size                  | mm                | 3100*1260      | 3100*1260      | 3100*1560      | 3700*1860      | 3100*2210      |
| Working size                | mm                | 3100*1260*50   | 3100*1260*50   | 3100*1560*250  | 3700*1860*250  | 3100*2210*250  |
| Max Moving<br>Speed X/Y/Z   | m/min             | 100/100/30     | 100/100/30     | 100/100/30     | 100/100/30     | 100/100/30     |
| Vacuum<br>capacity          | m <sup>3</sup> /h | 244            | 244            | 244*2          | 244*2          | 244*2          |
| Servo power<br>X/Y/Z        | kW                | 1.5*2/1.5/1.5  | 1.5*2/1.5/1.5  | 1.5/1.5/1.5    | 1.5/1.5/1.5    | 1.5/1.5/1.5    |
| Pressure                    | MPa               | 0.65           | 0.65           | 0.6            | 0.6            | 0.6            |
| Voltage                     | VAC               | 380            | 380            | 380            | 380            | 380            |

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page 4/13

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.              | KN-3713DP      | KN-3510P       | KN-3612P       | KN-3710P       | KN-3713P       |
|-----------------------------|-------------------|----------------|----------------|----------------|----------------|----------------|
| Total Power                 | kW                | 31.6           | 31.6           | 31.6           | 31.6           | 31.6           |
| Machine Size<br>(L x W x H) | mm                | 5650*3710*2500 | 4500*3120*2500 | 5100*2390*2500 | 4500*3710*2500 | 5650*3710*2500 |
| Spindle Power               | kW                | 12             | 12             | 12             | 12             | 12             |
| Drill heads                 | -                 | 12V+8H+1S      | -              | -              | -              | -              |
| Tools numbers               | -                 | 16             | 16             | 16             | 16             | 16             |
| Table Size                  | mm                | 4260*2210      | 3100*1560      | 3700*1860      | 3100*2210      | 4260*2210      |
| Working size                | mm                | 4260*2210*250  | 3100*1560*250  | 3700*1860*250  | 3100*2210*250  | 4260*2210*250  |
| Max Moving<br>Speed X/Y/Z   | m/min             | 100/100/30     | 100/100/30     | 100/100/30     | 100/100/30     | 100/100/30     |
| Vacuum<br>capacity          | m <sup>3</sup> /h | 244*2          | 244*2          | 244*2          | 244*2          | 244*2          |
| Servo power<br>X/Y/Z        | kW                | 1.5/1.5/1.5    | 1.5/1.5/1.5    | 1.5/1.5/1.5    | 1.5/1.5/1.5    | 1.5/1.5/1.5    |
| Pressure                    | MPa               | 0.65           | 0.65           | 0.65           | 0.6            | 0.6            |
| Voltage                     | VAC               | 380            | 380            | 380            | 380            | 380            |

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page 5/13

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| <i>Model</i>                        | <i>M.U.</i>  | <i>KD-612KC</i>                                                                                   | <i>KD-612G</i>                                                                                    | <i>KD-612GHA</i>                                                                 |
|-------------------------------------|--------------|---------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------|
| <i>Total Power</i>                  | <i>kW</i>    | 32.02                                                                                             | 36.27                                                                                             | 38.17                                                                            |
| <i>Machine Size<br/>(L x W x H)</i> | <i>mm</i>    | 7638*4243*2190                                                                                    | 7638*4305*2190                                                                                    | 8352*5127*2190                                                                   |
| <i>Spindle Power</i>                | <i>kW</i>    | 9+5.5+3.5                                                                                         | 9+5.5+3.5+3.5                                                                                     | 9+5.5+3.5+3.5                                                                    |
| <i>Drill heads</i>                  | -            | <i>Upper drill<br/>package: 12V+8H<br/>Bottom drill package: 9V</i>                               | <i>Upper drill<br/>package: 14V+10H<br/>Bottom drill package: 9V</i>                              | <i>Upper drill<br/>package: 12V+8H+1S<br/>Bottom drill package: 9V</i>           |
| <i>Tools numbers</i>                | -            | 32                                                                                                | 37                                                                                                | 34                                                                               |
| <i>Working size</i>                 | <i>mm</i>    | <i>Panel Length: 70~3000<br/>Panel Width: 50~1215<br/>35~50(L≤1000)<br/>Panel Thickness: 9~60</i> | <i>Panel Length: 70~3000<br/>Panel Width: 50~1215<br/>35~50(L≤1000)<br/>Panel Thickness: 9~60</i> | <i>Panel Length: 200~2800<br/>Panel Width: 50~1215<br/>Panel Thickness: 9~60</i> |
| <i>Max Moving Speed X/Y/Z</i>       | <i>m/min</i> | 140/90/30                                                                                         | 140/90/30                                                                                         | 140/90/30                                                                        |
| <i>Servo power X/Y/Z</i>            | <i>kW</i>    | 1.5/1.5/1.5                                                                                       | 1.5/1.5/1.5                                                                                       | 1.5/1.5/1.5                                                                      |
| <i>Pressure</i>                     | <i>MPa</i>   | 0.6                                                                                               | 0.6                                                                                               | 0.6                                                                              |
| <i>Voltage</i>                      | <i>VAC</i>   | 380                                                                                               | 380                                                                                               | 380                                                                              |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-812HZA                                                                        | KD-868HZA                                                                                           | KD-610R                                                                      |
|-----------------------------|-------|----------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------|
| Total Power                 | kW    | 59.5                                                                             | 59.5                                                                                                | 15.7                                                                         |
| Machine Size<br>(L x W x H) | mm    | 8132*6330*2190                                                                   | 8132*5740*2190                                                                                      | 4115*2250*2210                                                               |
| Spindle Power               | kW    | 5.5*2+3.5*2                                                                      | 5.5*2+3.5*2                                                                                         | 3.5                                                                          |
| Drill heads                 | -     | Upper drill<br>package: 52V+24H+2S<br>Bottom drill package: 18V                  | Upper drill<br>package: 52V+24H+2S<br>Bottom drill package: 18V                                     | Upper drill<br>package: 10V+8H<br>Bottom drill package: 9V                   |
| Tools numbers               | -     | 112                                                                              | 112                                                                                                 | 28                                                                           |
| Working size                | mm    | Panel Length 200 ~ 2800<br>Panel Width: 50 ~ 1220<br>Right workstation: 50 ~ 800 | Panel Length: 200~2800;<br>Panel Width;<br>Left workstation: 50~650;<br>Right workstation: 50 ~ 800 | Panel Length: 70 ~ 3000<br>Panel Width: 35 ~ 1000<br>Panel Thickness: 9 ~ 60 |
| Max Moving Speed X/Y/Z      | m/min | 140/90/50                                                                        | 140/90/50                                                                                           | 100/90/50                                                                    |
| Servo power X/Y/Z           | kW    | 1.5/1.5/1.5                                                                      | 1.5/1.5/1.5                                                                                         | 1.5/1.5/1.5                                                                  |
| Pressure                    | MPa   | 0.6                                                                              | 0.6                                                                                                 | 0.6                                                                          |
| Voltage                     | VAC   | 380                                                                              | 380                                                                                                 | 380                                                                          |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-610RH                                                               | KD-612RS                                                                                | KD-612R                                                                                 |
|-----------------------------|-------|------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Total Power                 | kW    | 15.7                                                                   | 25.52                                                                                   | 19.95                                                                                   |
| Machine Size<br>(L x W x H) | mm    | 4115*2250*2210                                                         | 7638*3963*2190                                                                          | 7638*3856*2190                                                                          |
| Spindle Power               | kW    | 3.5                                                                    | 3.5+3.5                                                                                 | 3.5+3.5                                                                                 |
| Drill heads                 | -     | Upper drill<br>package: 10V+8H+1S<br>Bottom drill package: 9V          | Upper drill<br>package: 20V+12H<br>Bottom drill package: 9V                             | Upper drill<br>package: 10V+8H<br>Bottom drill package: 9V                              |
| Tools numbers               | -     | 29                                                                     | 43                                                                                      | 29                                                                                      |
| Working size                | mm    | Panel Length: 70~3000<br>Panel Width: 35~1000<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1220<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1215<br>35~50(L≤1000)<br>Panel Thickness: 9~60 |
| Max Moving Speed X/Y/Z      | m/min | 100/90/50                                                              | 140/90/50                                                                               | 140/90/50                                                                               |
| Servo power X/Y/Z           | kW    | 1.5/1.5/1.5                                                            | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                                             |
| Pressure                    | MPa   | 0.6                                                                    | 0.6                                                                                     | 0.6                                                                                     |
| Voltage                     | VAC   | 380                                                                    | 380                                                                                     | 380                                                                                     |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-612RH                                                                                | KD-612RHS                                                                               | KD-612RSF                                                                                 |
|-----------------------------|-------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------|
| Total Power                 | kW    | 19.95                                                                                   | 25.52                                                                                   | 25.52                                                                                     |
| Machine Size<br>(L x W x H) | mm    | 7638*3856*2190                                                                          | 7638*3963*2190                                                                          | 7638*3963*2190                                                                            |
| Spindle Power               | kW    | 3.5+3.5                                                                                 | 3.5+3.5                                                                                 | 3.5+3.5                                                                                   |
| Drill heads                 | -     | Upper drill<br>package: 10V+8H+1S<br>Bottom drill package: 9V                           | Upper drill<br>package: 20V+12H+1S<br>Bottom drill package: 9V                          | Upper drill<br>package: 20V+12H<br>Bottom drill package: 9V                               |
| Tools Number                | -     | 30                                                                                      | 44                                                                                      | 43                                                                                        |
| Working size                | mm    | Panel Length: 70~3000<br>Panel Width: 50~1215<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1220<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1220<br>35~50mm(L≤1000)<br>Panel Thickness: 9~60 |
| Max Moving Speed X/Y/Z      | m/min | 140/90/50                                                                               | 140/90/50                                                                               | 140/90/50                                                                                 |
| Servo power X/Y/Z           | kW    | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                                               |
| Pressure                    | MPa   | 0.6                                                                                     | 0.6                                                                                     | 0.6                                                                                       |
| Voltage                     | VAC   | 380                                                                                     | 380                                                                                     | 380                                                                                       |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-612RF                                                                                | KD-612RHF                                                                               | KD-612RHSF                                                                              |
|-----------------------------|-------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Total Power                 | kW    | 19.95                                                                                   | 19.95                                                                                   | 25.52                                                                                   |
| Machine Size<br>(L x W x H) | mm    | 7638*3856*2190                                                                          | 7638*3856*2190                                                                          | 7638*3963*2190                                                                          |
| Spindle Power               | kW    | 3.5+3.5                                                                                 | 3.5+3.5                                                                                 | 3.5+3.5                                                                                 |
| Drill heads                 | -     | Upper drill package: 10V+8H<br>Bottom drill package: 9V                                 | Upper drill package: 10V+8H+1S<br>Bottom drill package: 9V                              | Upper drill package: 20V+12H+1S<br>Bottom drill package: 9V                             |
| Tools Number                | -     | 29                                                                                      | 30                                                                                      | 44                                                                                      |
| Working size                | mm    | Panel Length: 70~3000<br>Panel Width: 50~1215<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1215<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1220<br>35~50(L≤1000)<br>Panel Thickness: 9~60 |
| Max Moving Speed X/Y/Z      | m/min | 140/90/50                                                                               | 140/90/50                                                                               | 140/90/50                                                                               |
| Servo power X/Y/Z           | kW    | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                                             |
| Pressure                    | MPa   | 0.6                                                                                     | 0.6                                                                                     | 0.6                                                                                     |
| Voltage                     | VAC   | 380                                                                                     | 380                                                                                     | 380                                                                                     |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-612KSZD                                                                              | KD-612KSZDF                                                                             | KD-612KSZDA                                                             |
|-----------------------------|-------|-----------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|-------------------------------------------------------------------------|
| Total Power                 | kW    | 31.72                                                                                   | 31.72                                                                                   | 33.62                                                                   |
| Machine Size<br>(L x W x H) | mm    | 7638*4301*2190                                                                          | 7638*4301*2190                                                                          | 8914*4440*2190                                                          |
| Spindle Power               | kW    | 5.5+3.5+3.5                                                                             | 5.5+3.5+3.5                                                                             | 5.5+3.5+3.5                                                             |
| Drill heads                 | -     | Upper drill<br>package: 26V+12H<br>Bottom drill package: 9V                             | Upper drill<br>package: 26V+12H<br>Bottom drill package: 9V                             | Upper drill<br>package: 26V+12H<br>Bottom drill package: 9V             |
| Tools Number                | -     | 50                                                                                      | 50                                                                                      | 50                                                                      |
| Working size                | mm    | Panel Length: 70~3000<br>Panel Width: 50~1220<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 70~3000<br>Panel Width: 50~1220<br>35~50(L≤1000)<br>Panel Thickness: 9~60 | Panel Length: 200~2800<br>Panel Width: 50~1220<br>Panel Thickness: 9~60 |
| Max Moving<br>Speed X/Y/Z   | m/min | 140/90/50                                                                               | 140/90/50                                                                               | 140/90/50                                                               |
| Servo power<br>X/Y/Z        | kW    | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                                             | 1.5/1.5/1.5                                                             |
| Pressure                    | MPa   | 0.6                                                                                     | 0.6                                                                                     | 0.6                                                                     |
| Voltage                     | VAC   | 380                                                                                     | 380                                                                                     | 380                                                                     |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-612KSZDFA                                                         | KD-868HE                                                                                        | KD-812ZA                                                                                            |
|-----------------------------|-------|----------------------------------------------------------------------|-------------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------------------|
| Total Power                 | kW    | 33.62                                                                | 54.2                                                                                            | 59.5                                                                                                |
| Machine Size<br>(L x W x H) | mm    | 8914*4440*2190                                                       | 7638*5100*2190                                                                                  | 8132*6330*2190                                                                                      |
| Spindle Power               | kW    | 5.5+3.5+3.5                                                          | 5.5*2+3.5*2                                                                                     | 5.5*2+3.5*2                                                                                         |
| Drill heads                 | -     | Upper drill<br>package:26V+12H<br>Bottom drill package:9V            | Upper drill<br>package:52V+24H+2S<br>Bottom drill package:18V                                   | Upper drill<br>package:64V+24H<br>Bottom drill package:18V                                          |
| Tools Number                | -     | 50                                                                   | 112                                                                                             | 110                                                                                                 |
| Working size                | mm    | Panel Length:200~2800<br>Panel Width:50~1220<br>Panel Thickness:9~60 | Panel Length: 70~3000;<br>Panel Width: left<br>workstation :35~650<br>right workstation :35~800 | Panel Length: 200~2800 ;<br>Panel Width:<br>left workstation: 50~1220;<br>right workstation :50~800 |
| Max Moving<br>Speed X/Y/Z   | m/min | 140/90/50                                                            | 140/90/50                                                                                       | 140/90/50                                                                                           |
| Servo power<br>X/Y/Z        | kW    | 1.5/1.5/1.5                                                          | 1.5/1.5/1.5                                                                                     | 1.5/1.5/1.5                                                                                         |
| Pressure                    | MPa   | 0.6                                                                  | 0.6                                                                                             | 0.6                                                                                                 |
| Voltage                     | VAC   | 380                                                                  | 380                                                                                             | 380                                                                                                 |

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## PRODUCT IDENTIFICATION

The Product: **ENGRAVING MACHINE**

\*constructive and functional characteristics:

| Model                       | M.U.  | KD-868E                                                                                           | KD-612KHF                                                                          | KD-612KSF                                                                                | KN-6410K       |
|-----------------------------|-------|---------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------|----------------|
| Total Power                 | kW    | 54.2                                                                                              | 22.65                                                                              | 28.22                                                                                    | 24.4           |
| Machine Size<br>(L x W x H) | mm    | 7638*5100*2190                                                                                    | 7638*3856*2190                                                                     | 7638*3963*2190                                                                           | 7638*3963*2190 |
| Spindle Power               | kW    | 5.5kW *2+3.5kW *2                                                                                 | 5.5+3.5                                                                            | 5.5+3.5                                                                                  | 12             |
| Drill heads                 | -     | Upper drill<br>package: 64V+24H<br>Bottom drill<br>package: 18V                                   | Upper drill<br>package: 12V+8H+1S<br>Bottom drill<br>package: 9V                   | Upper drill<br>package: 26V+12H<br>Bottom drill<br>package: 9V                           | 12V+8H+1S      |
| Tools Number                | -     | 110                                                                                               | 32                                                                                 | 49                                                                                       | 16             |
| Working size                | mm    | Panel Length: 70~3000<br>Panel width: left<br>workstation: 35~650<br>right workstation:<br>35~800 | Length: 70-3000<br>Panel Width: 50-1215<br>35-50 (L≤1000)<br>Panel Thickness: 9-60 | Panel Length: 70-3000<br>Panel Width: 50-1220<br>35-50 (L≤1000)<br>Panel Thickness: 9-60 | 3250*1250*200  |
| Max Moving<br>Speed X/Y/Z   | m/min | 140/90/50                                                                                         | 140/90/50                                                                          | 140/90/50                                                                                | 80/40/30       |
| Servo power<br>X/Y/Z        | kW    | 1.5/1.5/1.5                                                                                       | 1.5/1.5/1.5                                                                        | 1.5/1.5/1.5                                                                              | 2.0/1.5/1.5    |
| Pressure                    | MPa   | 0.6                                                                                               | 0.6                                                                                | 0.6                                                                                      | 0.65           |
| Voltage                     | VAC   | 380                                                                                               | 380                                                                                | 380                                                                                      | 380            |

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page 13/13