

CDS-42 / CDS-52

Double Your Productivity with **Twin** Spindle and Gang tool Sliders!

CNC Lathe



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MORE INFORMATION

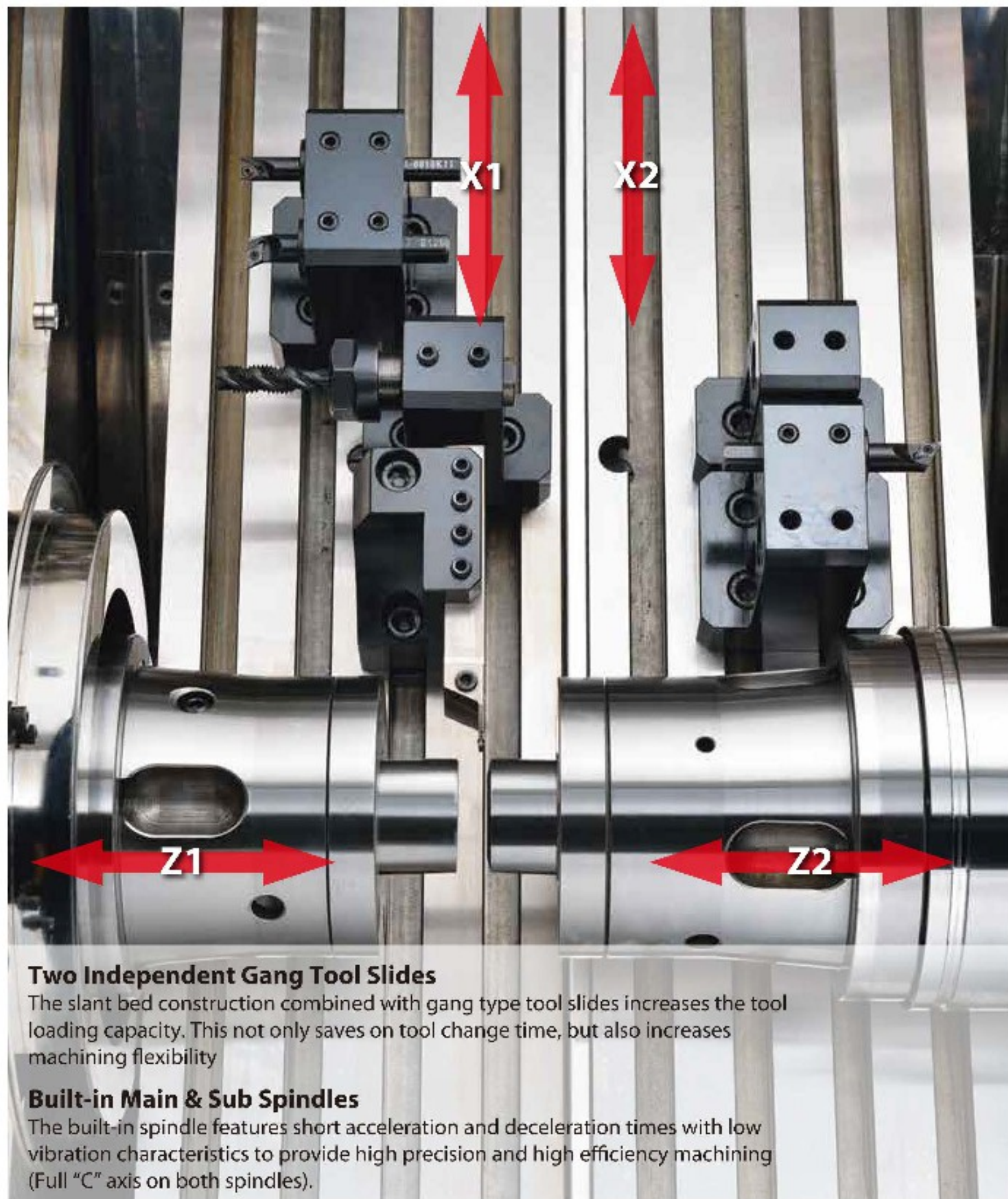
CHIAH CHYUN Machinery

MACHINE FEATURES

“The CDS is built for machining of precision parts with a focus on high accuracy and high productivity.”

CDS Exterior

The one-piece cast construction guarantees the rigidity of the machine structure and ensures precision machining and long term stability. The CDS series is built for machining of precision parts with a focus on high accuracy and high productivity.

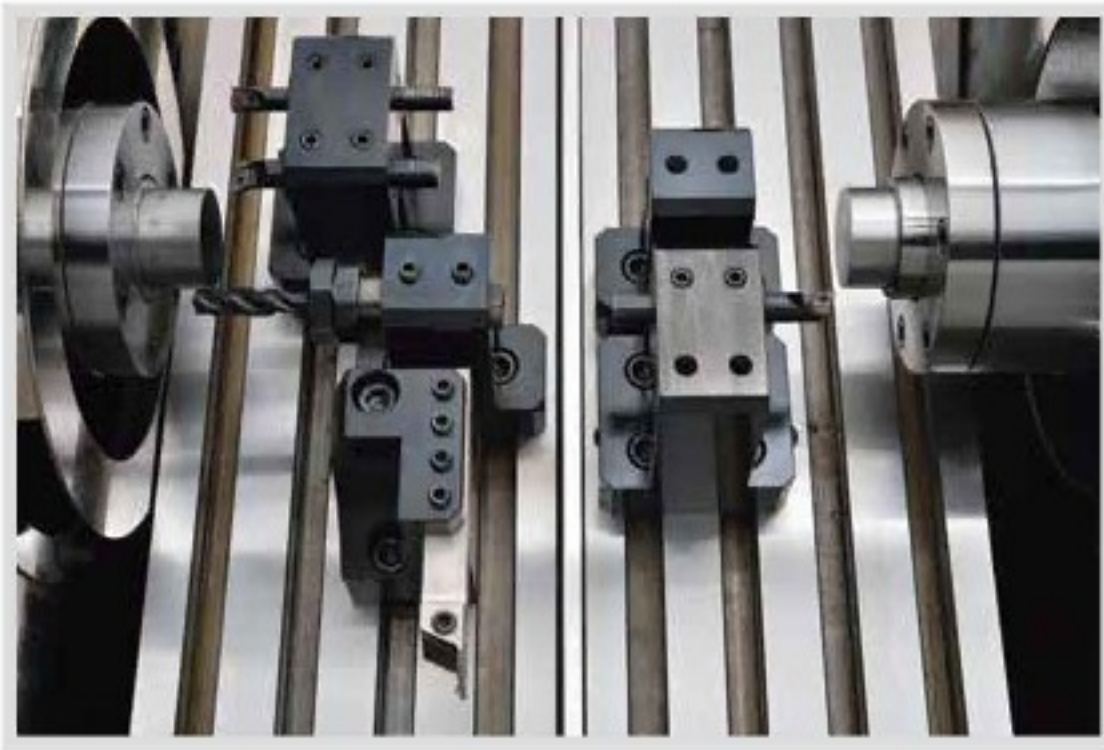


Two Independent Gang Tool Slides

The slant bed construction combined with gang type tool slides increases the tool loading capacity. This not only saves on tool change time, but also increases machining flexibility

Built-in Main & Sub Spindles

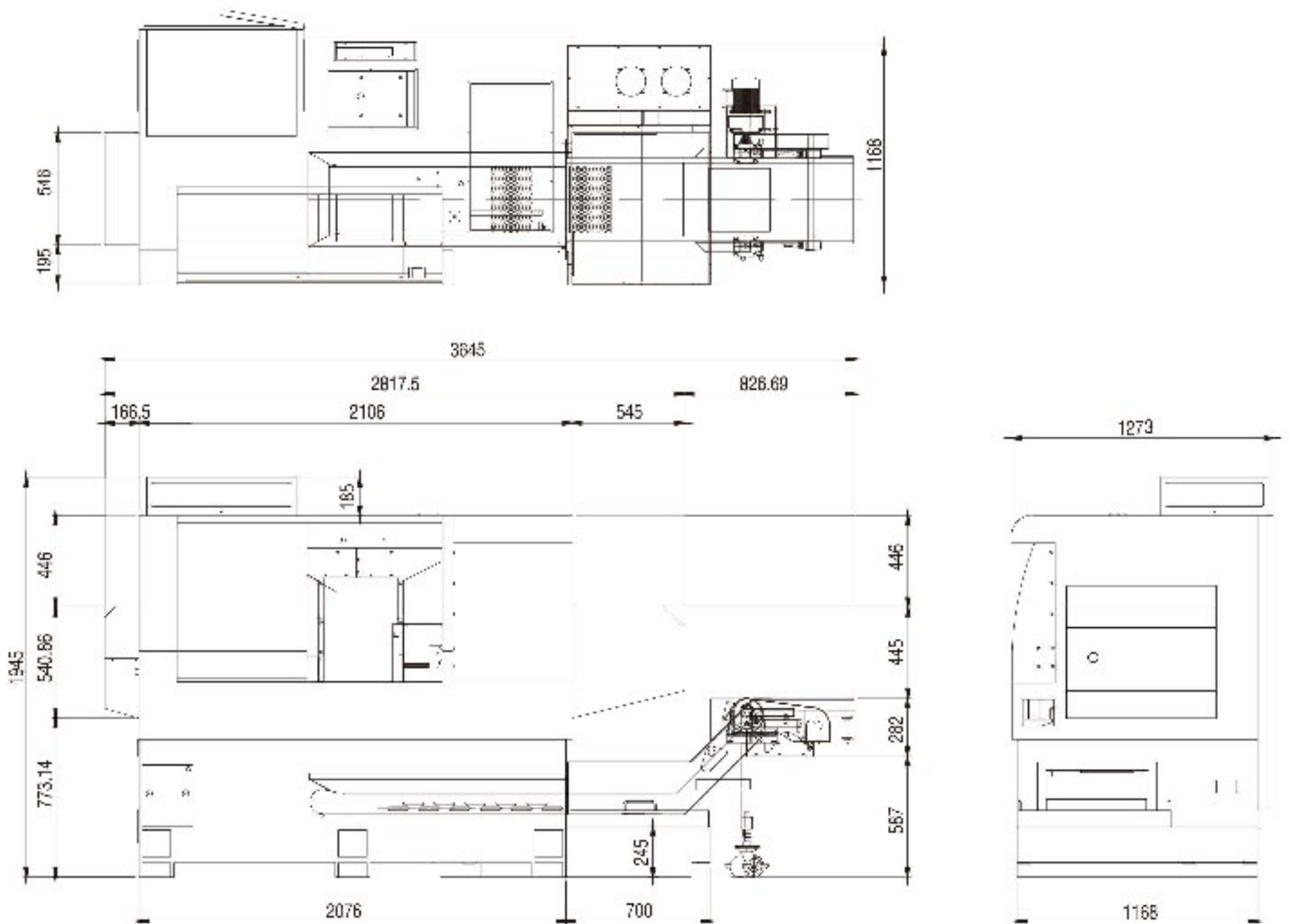
The built-in spindle features short acceleration and deceleration times with low vibration characteristics to provide high precision and high efficiency machining (Full “C” axis on both spindles).



Double X-axis Tool Slide

With the double X-axis tool slide, you can perform turning, drilling, tapping, cutting and slide turning in one operation for precision machining. With the slant design, you can save on space and have room for more tools. The tool slides can run independently with the main and sub spindles to increase productivity.

MACHINE LAYOUT



MACHINE SPECIFICATIONS

Unit: mm

| | | CDS-42 | CDS-52 |
|-----------------------|---|---|----------------------|
| Control Unit | Controller | Syntec | Mitsubishi / Syntec |
| | Min. input unit | 0.001 | |
| Spindle & Sub Spindle | Max. bar feeding dia. | Ø42 | Ø51 |
| | Spindle max. rpm | 6000 rpm | |
| | Spindle nose | A2-5 | A2-5 |
| | Collet of spindle | TRB-42 | TRB-52 |
| | Spindle servo motor | 5.5 / 7.5 kw | 7.5 / 11 kw |
| Spindle center height | | 1070 | |
| Axis Specification | X1/X2-axis travel | 330 / 330 | |
| | Z1/Z2-axis travel | 242 / 321 | 232 / 316 |
| | X/Z-axis rapid travel speed | 30 m/min | |
| | X/Z-axis servo motor | M: 1.0 kw / 1.0 kw, S: 1.3 kw / 0.85 kw | |
| Tooling | O.D. turning tool size | □16 | |
| | I.D. turning tool size | Ø20 | |
| Motor | Hydraulic motor | 1HP / 0.75 kw | |
| Coolant Pump | Main/Sub spindle upper flush pump | 3/4 HP | |
| | Tool coolant pump | 3/4 HP | |
| Machine Specification | Voltage | 220V, 3 phase | |
| | Power | 40 KVA | M: 42 KVA, S: 43 KVA |
| | Machine size (LxWxH) (Including chip conveyor) | 3645 x 1273 x 1945 | |
| | Machine N.W. (Including chip conveyor) | 4500 kg | |
| Tank Capacity | Hydraulic tank | 40L | |
| | Coolant tank | 380L | |

• M: Mitsubishi controller, S: Syntec controller

• Designs and specs are subject to change without notice.

CDS 系列

雙主軸、雙櫛式刀架
產能倍增

■ CNC 車床



MORE INFORMATION

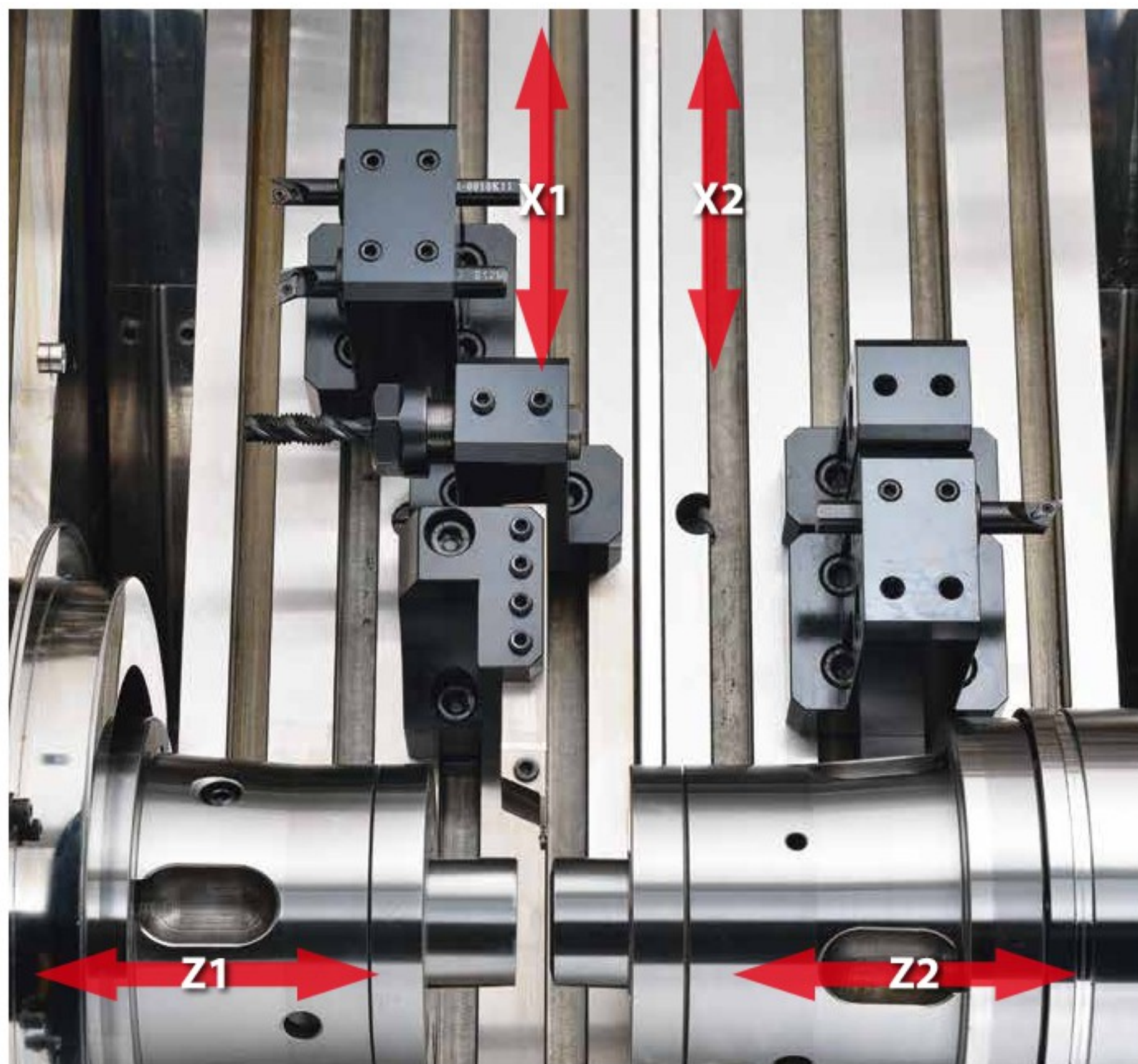
 **Machinery**
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機器特性

“專為精密零件加工打造的洽群CDS系列，徹底顯現高精度及高產能的性能風範。”

CDS機器外觀結構

採用一體式鑄造成型，具有最佳機器結構剛性，確保精密加工特性及長期穩定性。洽群CDS系列是專為精密零件加工而打造，以優異的加工性能有效節省生產時間。

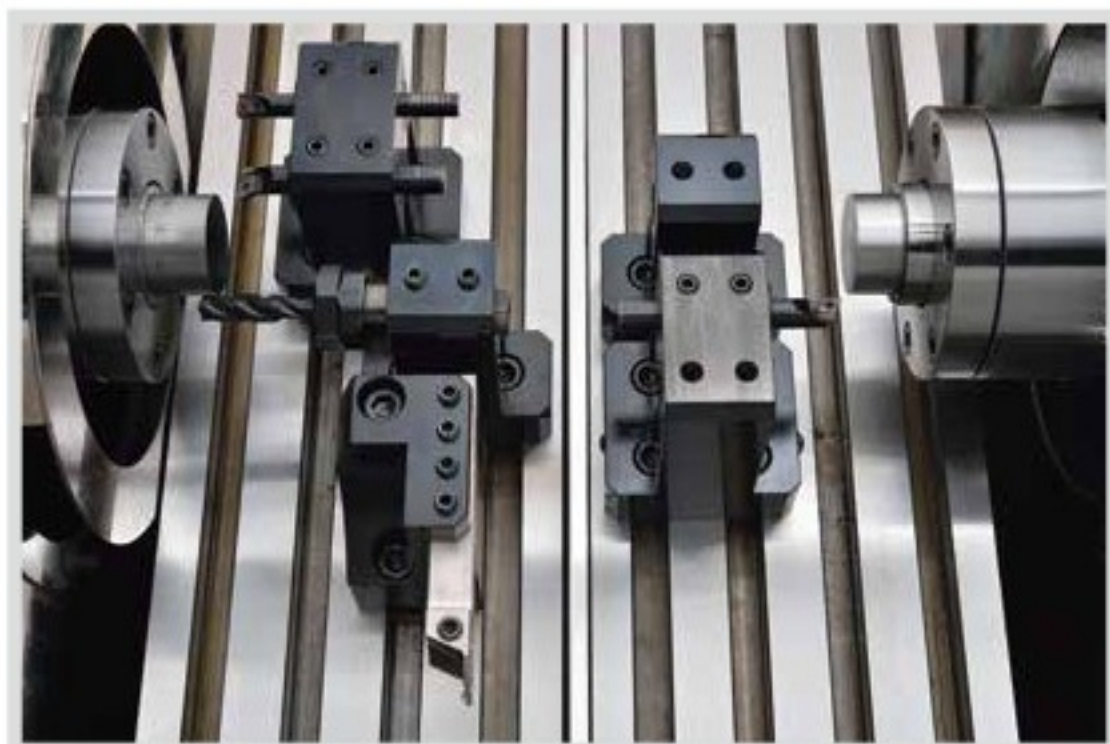


雙獨立式櫛式刀架

斜床式機體結構搭配櫛式刀架設計，以增加儲刀量。此特性可節省換刀時間，提升加工的多元化。

內藏式正/副主軸

內藏式主軸展現較佳傳動性能及有效抑制高速運轉時的振動，提供高精度及高效率之加工。



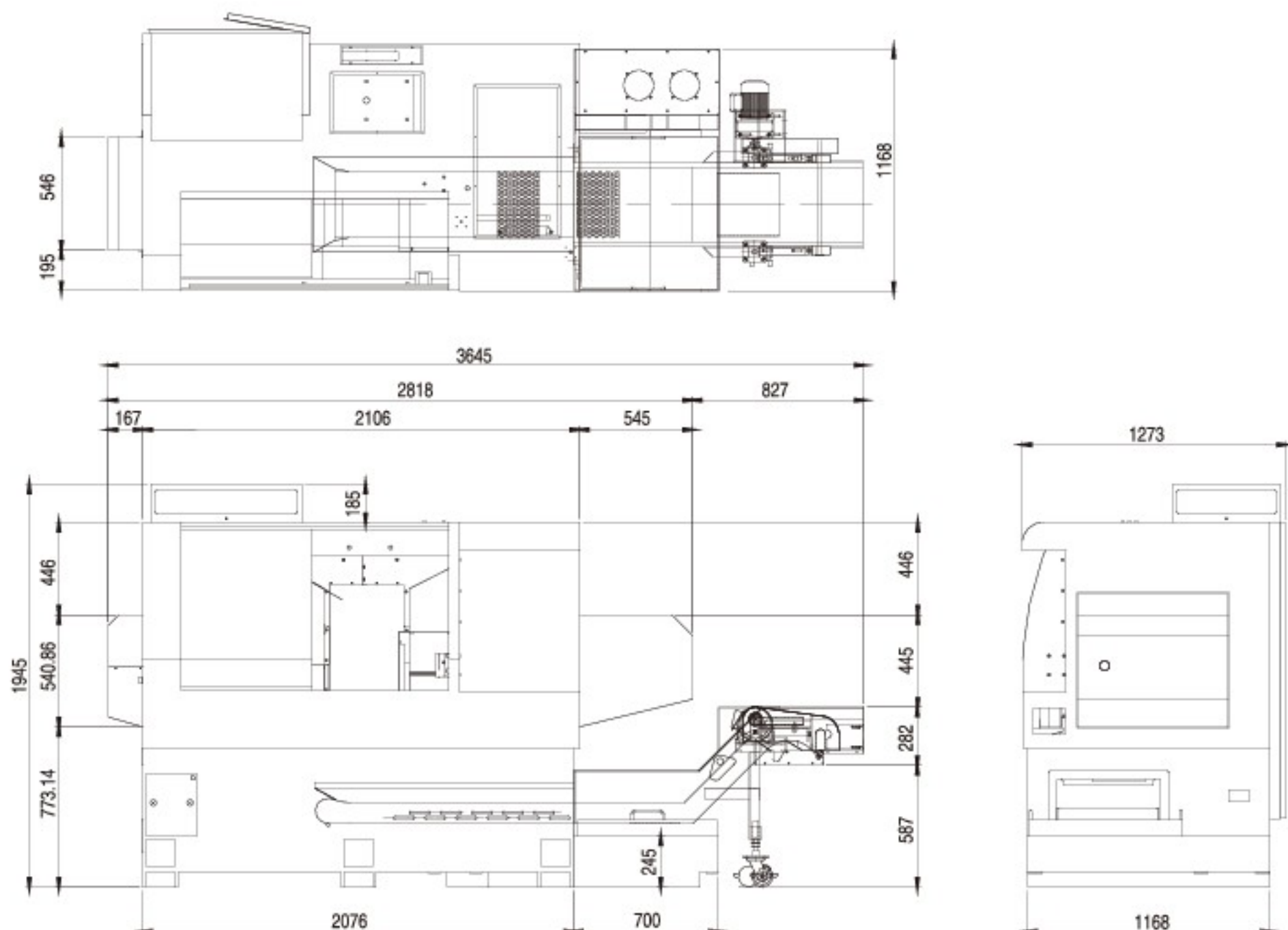
C軸定位功能

搭配新代控制器，正/副主軸具有C軸定位功能，定位精度可達 0.001° ，可執行工件之輪廓加工。

獨立雙X軸

雙X軸功能，能配合正/副主軸獨立作業，可在一次設定中執行車削、鑽孔、攻牙等精密加工，有效提升性能。刀座為斜 60° 設計，以節省空間，儲存更多刀具。

機器外觀尺寸圖



機器規格表

| | | CDS-42 | CDS-52 |
|-------|--------------|---|------------------------|
| 控制單元 | 控制器 | 新代 | 三菱/新代 |
| | 最小輸入單位 | 0.001 mm | |
| 正/副主軸 | 最大棒材加工外徑 | Ø42 mm | Ø51 mm |
| | 正/副主軸最高轉速 | 6000 rpm | |
| | 正/副主軸鼻端型式 | A2-5 | A2-5 |
| | 正/副主軸筒夾型式 | TRB-42 | TRB-52 |
| | 正/副主軸伺服馬達 | 5.5 / 7.5 kw | 7.5 / 11 kw |
| | 正/副主軸中心高度 | 1070 mm | |
| 軸向規格 | X1/X2軸行程 | 330 / 330 mm | |
| | Z1/Z2軸行程 | 242 / 321 mm | 232 / 316 mm |
| | X/Z軸快移速率 | 30 m/min | |
| | X/Z軸伺服馬達 | M: 1.0 kw / 1.0 kw S: 1.3 kw / 0.85 kw | |
| 刀具系統 | 外徑刀具尺寸 | □16 mm | |
| | 內徑刀具尺寸 | Ø20 mm | |
| 泵浦 | 油壓泵浦 | 1HP / 0.75 kw | |
| | 正/副主軸上方沖屑泵浦 | 3/4 HP | |
| | 刀具切削水泵浦 | 3/4 HP | |
| 機器規格 | 電壓 | 220V, 3相 | |
| | 電力需求 | 40 KVA | M: 42 KVA S: 43 KVA |
| | 機器尺寸(長x寬x高) | 3645 x 1273 x 1945 mm | |
| | 機器淨重(含切屑輸送機) | 4500 kg | |
| 油箱容量 | 油壓箱容量 | 40L | |
| | 切削水箱容量 | 380L | |

•M: 三菱控制器
S: 新代控制器

•所有規格僅供參考，規格及尺寸若有變更，恕不另行通知。

標準配件

- 工具箱
- 精密筒夾裝置
- 自動棒材送料機介面
- 成品自動取料裝置及輸送帶
- 切削沖屑&吹氣裝置
 - * 切削水泵浦
 - * 流量檢知裝置
 - * 副主軸中心沖屑裝置
- 櫥式刀具座
- 內藏式主軸(主軸及副主軸)
- 電控箱冷氣機
- 鏈板式排屑機及搬運車
- 副主軸推料器

選購配件

- 高壓中心出水裝置
- 穩壓器/變壓器
- 油水分離機
- 門型機械手