

# ***SUPER DUTY CNC TURNING CENTER***

## ***LS-1100***

- Super Duty one-piece cast iron construction featuring high dampening coefficient with minimal thermo deformation.
- 45° slant bed design provides optimal cutting condition.
- The slideways, hardened by high frequency induction, offer ideal hardness characteristics.
- Hand scraped Turcite B ensures static as well as dynamic accuracy between all contact surfaces.
- Our highly rigid spindle features deformation resistance, powerful turning capability and rugged durability.
- Taiwan Takisawa produced Super Duty turret features rapid positioning and the largest available 18" diameter curvic coupling. This massive turret is 31.5" in diameter and 7.8" thick.
- The two-step gearbox offers extraordinarily high torque during low speed machining for outstanding Super Duty cutting performance.





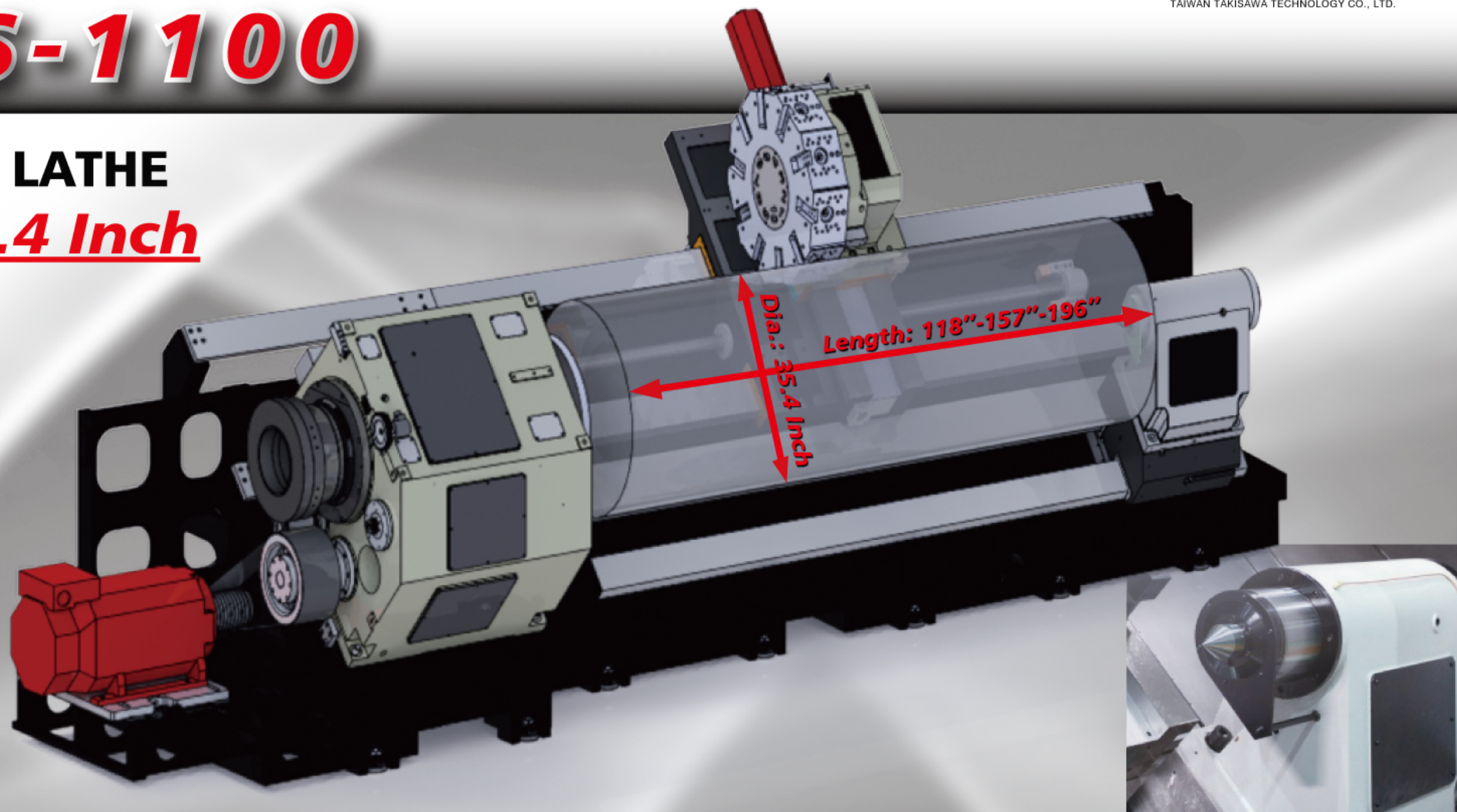
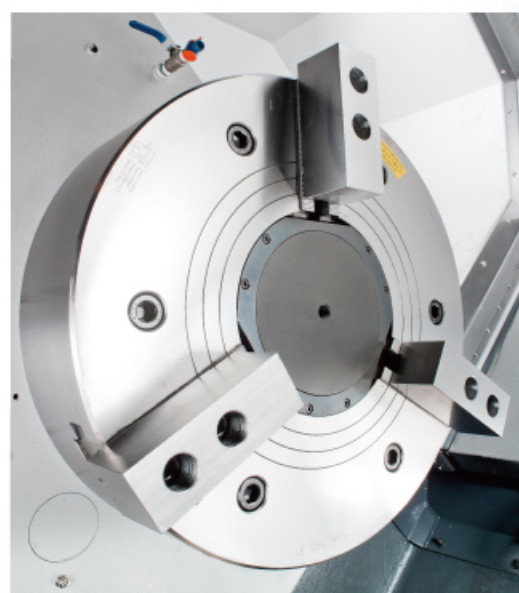
# LS-1100

## SUPER DUTY CNC LATHE

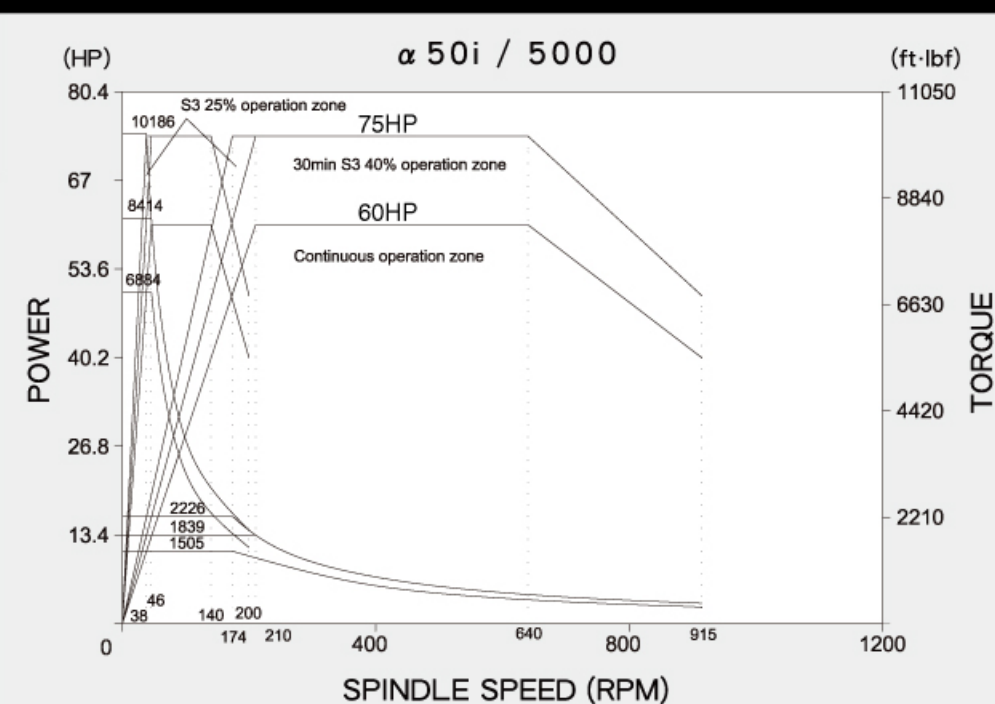
MAX. TURNING DIAMETER **35.4 Inch**

MAX. TURNING LENGTH

**118 Inch**



LS-1100 SPINDLE OUTPUT DIAGRAM



## SUPER DUTY SPINDLE

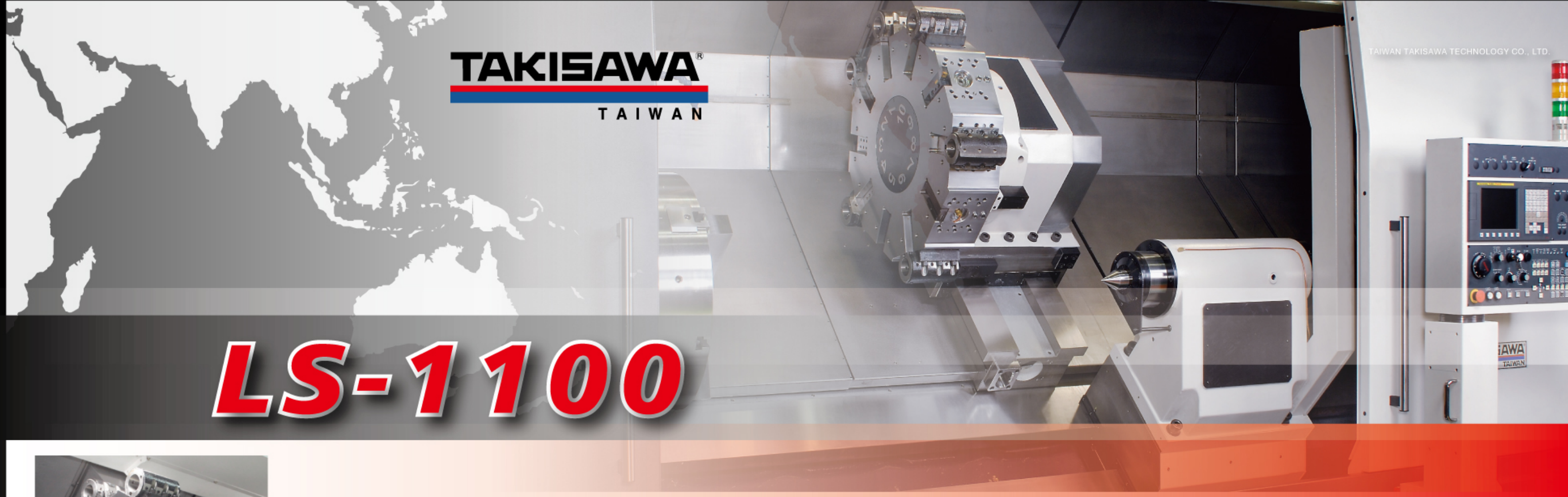
Available in 24", 28", 32" and 40" Power Chuck & Air Chuck.

MAX. SPINDLE SPEED **900 rpm**

MAX. TORQUE **10186 ft-lbf**

MAX. POWER OUTPUT **75 HP**

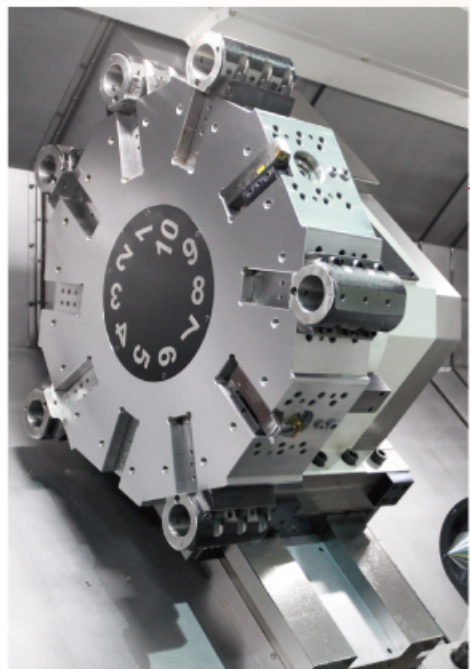




**TAKISAWA**  
TAIWAN

TAIWAN TAKISAWA TECHNOLOGY CO., LTD.

# LS-1100



## SUPER DUTY TURRET

Turning Holder **1.25 Inches**  
Boring Bar Holder Max. **4 Inches**

## 10 STATION TURRET

MAX. TURNING DIAMETER	35.4 Inch
O.D. TOOL HOLDER	1.25 Inch
I.D. TOOL HOLDER	2.5 ~ 3 ~ 4 Inch
TURRET WIDTH	31.5 Inch
TURRET THICKNESS	7.87 Inch

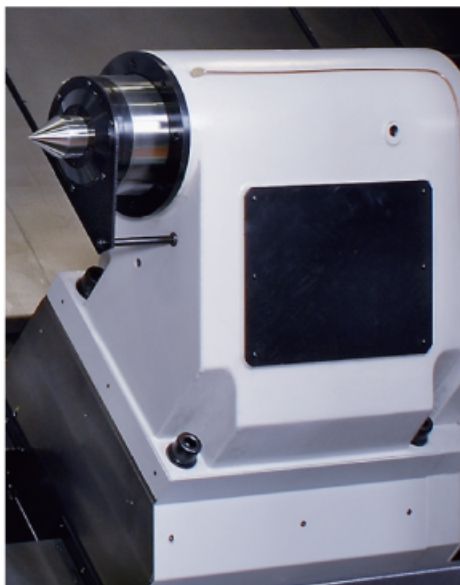
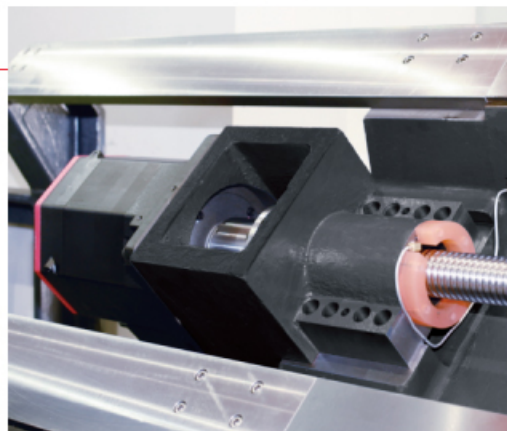
## HIGH-THRUST CUTTING CAPABILITY

Z axis Motor **FANUC α iS 100/2500**

X axis Motor **FANUC α iF 40/3000**

Feedrate: Z axis **472.7 Inch/min**

X axis **472.7 Inch/min**



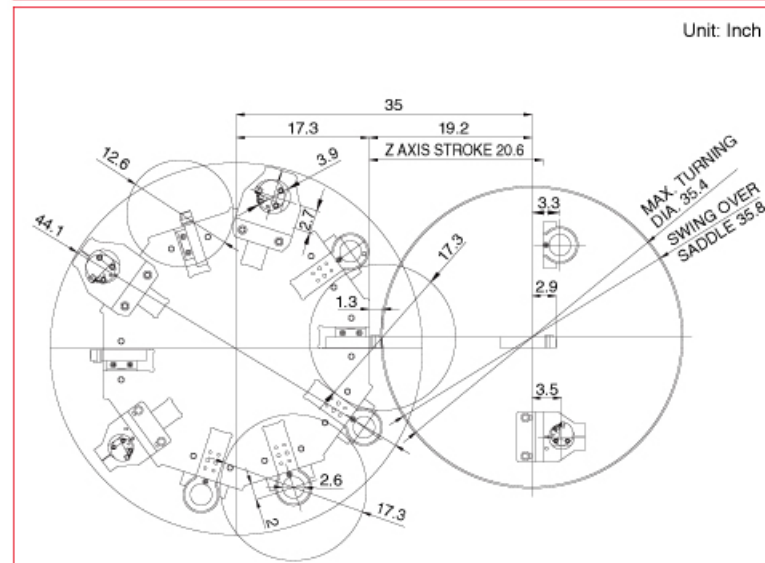
## PROGRAMMABLE TAILSTOCK

Tailstock Spindle Diameter **7.9 Inch**

Tailstock Spindle Travel **5.9 Inch**

Spindle Taper **MT.6**

## TOOL INTERFERENCE DIAGRAM



## MACHINING PERFORMANCE

TOOL	SPINDLE SPEED	CUTTING FEEDRATE	CUTTING DEPTH	FEED PER REV.
1.25x1.25 Inch PCLNR 3232P 19	267 rpm	394 ft/min	0.55 Inch	0.03 ipr
TOOL	DRILLING DIA.	SPINDLE SPEED	CUTTING FEEDRATE	FEED PER REV.
Drill	2.3 Inch	250 rpm	394 ft/min	0.012 ipr

## STANDARD ACCESSORIES



FANUC CONTROLLER

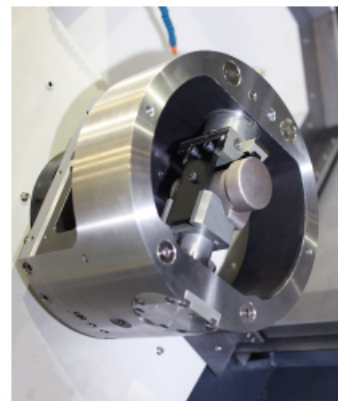


CHIP CONVEYOR

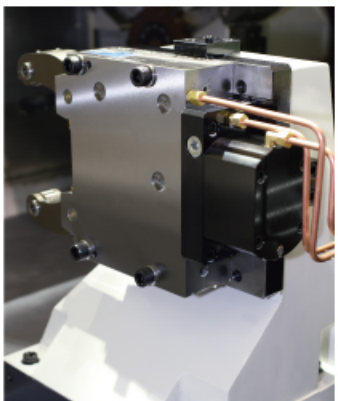


LUBE LUBRICATION PUMP

## OPTIONAL ACCESSORIES



INDEXING CHUCK



STEADY REST

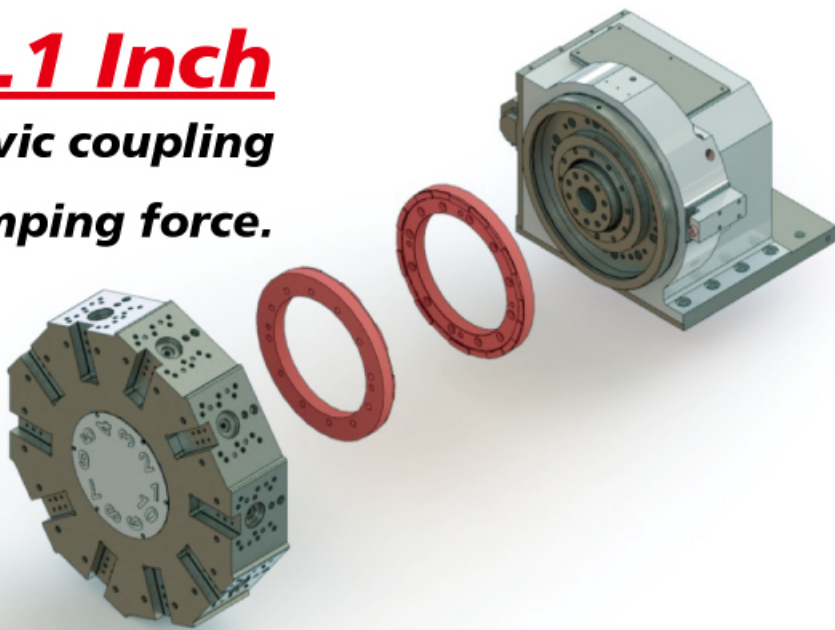


OIL COOLER



HIGH PRESSURE FLUSH SYSTEM

**Ø18.1 Inch**  
Largest available curvic coupling  
for maximum clamping force.







Unit: Inch



## TOOLING SYSTEM

## WORKING RANGE

Unit: Inch

## LS-1100 MACHINE SPECIFICATIONS

ITEM	UNIT	LS-1100
<b>CAPACITY</b>		
MAX. SWING	Inch	44.1
SWING OVER SADDLE	Inch	35.8
SD. TURNING DIAMETER	Inch	17.3
MAX. TURNING DIAMETER	Inch	35.4
MAX. TURNING LENGTH	Inch	118
<b>TRAVEL</b>		
X AXIS TRAVEL	Inch	20.6
Z AXIS TRAVEL	Inch	122
<b>SPINDLE</b>		
SPINDLE SPEED	rpm	900
CHUCK SIZE	Inch	32
SPINDLE NOSE		A2-20
THROUGH HOLE DIAMETER	Inch	10.8
BEARING DIAMETER	Inch	14.2
<b>TURRET</b>		
NUMBER OF TOOLS		T10
TURNING TOOL SHANK	Inch	1.25
BORING BAR SHANK DIAMETER	Inch	2.5 、 (3) 、 (4)
<b>TAILSTOCK</b>		
TAILSTOCK TRAVEL	Inch	120
TAILSTOCK SPINDLE DIAMETER	Inch	7.9
TAPER HOLE OF TAILSTOCK SPINDLE		MT.6
TAILSTOCK SPINDLE TRAVEL	Inch	5.9
<b>FEEDRATE</b>		
X AXIS RAPID TRAVERSE RATE	Inch/min	472.4
Z AXIS RAPID TRAVERSE RATE	Inch/min	472.4
<b>MOTOR</b>		
SPINDLE DRIVE MOTOR	HP	60/75
X AXIS DRIVE MOTOR	HP	8
Z AXIS DRIVE MOTOR	HP	8 、 (14.7)
<b>MACHINE SIZE</b>		
HEIGHT	Inch	107.4
WIDTH	Inch	296.5
DEPTH	Inch	102.4
WEIGHT	lb	59500

- \* Sd. Chuck: Autogrip CF-3H-232
- \* ( ) Option
- \* Specifications are subject to change without notice.

## STANDARD ACCESSORIES

- Hi-low gearbox spindle
- Hydraulic servo turret
- Programmable tailstock
- Work lamp
- Tool box
- Operation manual

## OPTIONAL ACCESSORIES

- Chip conveyor & chip cart
- Manual steady rest
- Auto steady rest
- Air blow
- Auto power off
- Parts counter
- Automatic front door
- Tool setter
- Hydraulic chuck (24", 28", 32", 40")
- Air chuck
- High pressure flush system

**TAIWAN TAKISAWA TECHNOLOGY CO., LTD.**

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DISTRIBUTOR



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