

STE 16583

## 2. Specifications

### 2.1 Mechanical Data

#### (1) Machine capacity

Pallet diameter	1000 x $\phi$ 1250 mm (49.2 in)
Maximum swing (in the case without using APC)	1600 mm (63 in)
Maximum height under ram face from pallet top without tool holder	1400 mm (55.1 in)
Horizontal travel of rail head (X-axis)	-800 - 800 mm (-31.5 - 31.5 in)
Vertical travel of ram (Z-axis) (standard)	1235 mm (48.6 in)
Vertical travel of cross rail (standard)	750 mm (29.5 in)
Hight from floor line to pallet top	1010 mm (39.8 in)

#### (2) Operating specifications

Maximum cutting force of square ram	3000 kg (6600 lb)
Maximum load on table	10000 kg (22000 lb)
Maximum torque of table	1350 kg-m (9600 ft-lb)

#### (3) Speed and feed

Table speed (2-range)	3 - 315 rpm
Rapid traverse of rail head	6300 mm/min (248 in/min)
Feed rate of rail head	Refer to NC Specifications
Cross rail positioning speed (50Hz)	340 mm/min (13.4 in/min)

#### (4) Weight and space requirement

Overall machine height	5950 mm (234 in)
Floor space with options	6100 x 5800 mm (240x228 in)
Machine weight with options	27000 kg (59500 lb)

## 2.2 Electrical Data

## (1) Power source

Power voltage AC 415V 50 Hz

Control voltage AC 100V 50 Hz

(stepped down by a built-in transformer)

## (2) Motors

Table drive motor

DC 45 kW (60 HP)

1 set

Hydraulic pump motor

AC 5.5 kW (7.5 HP) 4P

1 set

Lubrication pump motor

AC 0.4 kW (0.5 HP) 4P

1 set

Cross rail elevation motor

AC 3.7 kW (5 HP) 4P

1 set

AC 0.4 kW (0.5 HP) 4P

1 set

## (3) Controller

Machine control equipment

1 set

Numerical controller

1 set

Servo motor with drive unit

2 sets

## 2.3 Utility Requirement

## (1) Electric source

Voltage AC 3-phase, 415V 50 Hz

Permissible voltage fluctuation  $\pm 10\%$ 

Total primary power capacity 110 kVA

## (2) Compressed air (for ATC and APC)

Pressure 5 kg/cm<sup>2</sup> (71.1 lb/in<sup>2</sup>)Capacity 48 m<sup>3</sup>/h (1700 ft<sup>3</sup>/h)

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## 2.4 Standard Accessories

- |   |       |
|---|-------|
| (1) Installation parts  | 1 set |
| (2) Special assembling and operation tools                                      | 1 set |
| (3) Chip guard (Coolant system replaces it by splash guards)                    | 1 set |
| (4) Automatic lubrication for slideways   | 1 set |
| (5) Automatic step positioning for cross rail (Step intervals 250 mm (9.84 in)) | 1 set |

## 2.5 Special Accessories

## (1) Coolant system

- |                                    |           |                |       |
|------------------------------------|-----------|----------------|-------|
| Coolant pump motor AC              | 1.5 kW    | 4P             | 1 set |
| Coolant pump Capacity (water base) | 100 l/min | (26.4 gal/min) |       |
| Coolant reservoir                  | 340 l     | (38.9 gal)     |       |
- with splash guards, flexible nozzle, automatic guard opening for ATC and APC if equipped

## (2) Automatic tool changer (ATC)

1 set

- |                     |  |
|---------------------|--|
| Number of tools     | 16 pots  |
| Tool shank          | ISO #60 taper piloted frange mount                                       |
| Maximum tool size   | 260 <sup>W</sup> x 150 <sup>T</sup> x 400 <sup>L</sup> (10.3x5.9x15.7in) |
| Maximum tool weight | 50 kg (110 lb)   |
| Tool selection      | Tool pot address   |

with power operated jib crane for tool mounting on the magazine

Weight without tools	1500 kg (3300 lb)
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## (3) Automatic pallet changer (APC)

1 set

- |                        |                                 |
|------------------------|---------------------------------|
| Pallet diameter        | 1000 x $\phi$ 1250 mm (49.2 in) |
| Maximum swing          | 1250 mm (55.1 in)               |
| Maximum load on pallet | 3200 kg (7040 lb)               |

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Pallet transfer speed	10000 mm/min (394 in/min)	
Pallet changing time (machine stop)	1.3 min	
Pallet with hard jaws		2 sets
Weight	7500 kg (16500 lb)	
(4) Chip scraper		
Scraper drive motor	AC 0.4 kW 4P	1 set
(5) Chip comveyer		
Conveyer drive motor	AC 0.4 kW 4P	1 set
(6) Trigger touch senser for measurement of dia.		1 set