

MECL



เครื่องฉีดพลาสติก



เครื่องกลึง CNC



Machining Center รุ่น MCV-450



เครื่องแมชชีนนิ่งเซ็นเตอร์ รุ่น M-One 11

MACHINERY EMPORIUM (1995) COMPANY LIMITED

ศูนย์รวมเครื่องจักรอุตสาหกรรม

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TUTOR



คุณสมบัติเครื่องจักร

- มอเตอร์สปีดแบบไฟฟ้ากระแสสลับที่ให้กำลังงานเต็มพิกัด
- ชุดสปีดแบบความเร็วรอบสูงที่ 5000 รอบต่อนาที
- ระบบรางเคลื่อนแกนเชิงเส้นแบบลิเนีย ไกด์เวย์
- ความเร็วเคลื่อนที่สูงสุด 15 เมตรต่อนาที
- หน้าแทนเป็นแบบเอียงเพื่อการกำจัดเศษงานได้ง่าย
- ง่ายต่อการบำรุงรักษา
- ขนาดเครื่องกระทัดรัดเหมาะสำหรับการผลิตที่มีพื้นที่จำกัด
- เหมาะสำหรับสถานศึกษานำไปใช้เพื่อการเรียนการสอน

อุปกรณ์พื้นฐาน

- มอเตอร์สปีดและมอเตอร์แกนเป็นแบบไฟฟ้ากระแสสลับ (เอซี)
- ระบบรางเคลื่อนแกนเชิงเส้นแบบลิเนีย ไกด์เวย์
- ระบบยื่นศูนย์แบบศูนย์เป็น
- มีระบบน้ำมันหล่อลื่นจากศูนย์กลางแบบอัตโนมัติ
- หัวจับชิ้นงานแบบไฮดรอลิกส์กำลังสูง
- สามารถควบคุมการทำงานของยื่นศูนย์ผ่านการโปรแกรม
- มีไฟเตือน 3 ระดับสี
- สามารถตีปเกลียวแบบรีจิดได้
- ป้อมจับมีดกลึงนอก 8 ชุด
- ป้อมจับมีดคว้านใน 4 ชุด
- ป้อมจับมีดปาดหน้า 2 ชุด
- ผ่านการชดเชยความผิดพลาดของการควบคุมตำแหน่งด้วยเครื่องเลเซอร์อินเตอร์ฟีโรมิเตอร์

อุปกรณ์เพิ่มเติม

- สายพานลำเลียงเศษพร้อมถังใส่ (ติดตั้งด้านหลังหรือด้านข้าง)
- การต่อเชื่อมกับทางส่ง

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Specifications (ลักษณะเฉพาะของเครื่อง)

TUTOR

Control System (ระบบควบคุมการทำงาน)		Fanuc Oi TF
CAPACITY (ขีดความสามารถ)		
Swing Over Bed (ขนาดเส้นผ่านศูนย์กลางหมุนเหนือรางเลื่อน)	mm (มม.)	425
Swing over carriage (กลิ้งชิ้นงานผ่านป้อมมีดโตสุด)	mm (มม.)	165
Maximum Turning Dia (กลิ้งชิ้นงานได้ขนาดเส้นผ่านศูนย์กลางโตสุด)	mm (มม.)	190
Maximum Turning Length (สามารถกลิ้งชิ้นงานได้ยาวสูงสุด)	mm (มม.)	224
Distance between centres (ความยาววัดจากยันศูนย์กลางถึงยันศูนย์กลาง)	mm (มม.)	250
SPINDLE (สปินเดิล)		
Spindle Nose (ชนิดของสปินเดิล)		Flat 110
Bore Through Spindle (รูผ่านหัวกลิ้ง)	mm (มม.)	36
Front Bearing Bore (ขนาดลูกปืนหัวกลิ้ง)	mm (มม.)	60
Maximum Bar Capacity ³ (ขนาดชิ้นงานผ่านหัวกลิ้ง)	mm (มม.)	25
Maximum Spindle speed ³ (ความเร็วรอบของสปินเดิลสูงสุด)	rpm (รอบ/นาที)	5000
Spindle Motor Power (กำลังพิกัดมอเตอร์ชุดสปินเดิล)	kw กิโลวัตต์	3.7 / 5.5
Standard Chuck Size (ขนาดหัวจับ)	mm (มม.)	135
AXES (แกน)		
Type of Guideways (ชนิดของรางเลื่อน)		Linear Guideways
X-Axis Stroke (ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	114
Z-Axis Stroke (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	224
X & Z Axes Rapid Rate (ความเร็วในการเคลื่อนที่สูงสุดของแนวแกน X & Z)	m/min.(เมตร/นาที)	15
X Axis Ball Screw Dia (ขนาดเส้นผ่านศูนย์กลางของบอลสกรูแกน X)	mm (มม.)	25
Z Axis Ball Screw Dia (ขนาดเส้นผ่านศูนย์กลางของบอลสกรูแกน Z)	mm (มม.)	25
X & Z Axes Motor Torque (ขนาดแรงบิดมอเตอร์แกน X & Z)	Nm (นิวตันเมตร)	2.6
TOOLING (เครื่องมือ)		
Number of Tools Maximum (จำนวนเครื่องมือ)	Nos. (ชุด)	8
Boring Bar Dia Maximum (ขนาดเส้นผ่านศูนย์กลางของด้ามมีดคว้านใหญ่สุด)	mm (มม.)	25
OD Turning Tool Size (ขนาดของมีดกลึงนอกใหญ่สุด)	mm (มม.)	16 X 16
TAILSTOCK (ชุดยันศูนย์กลาง)		
Tailstock Base Travel (ระยะการเคลื่อนที่ของฐานชุดยันศูนย์กลาง)	mm (มม.)	80
Tailstock Quill Travel (ระยะกระบอกยันศูนย์กลางเลื่อนเข้า-ออกได้)	mm (มม.)	120
Tailstock Quill Dia. (เส้นผ่านศูนย์กลางของกระบอกยันศูนย์กลาง)	mm (มม.)	50
Quill Taper (ชนิดของเรียวสวมยันศูนย์กลาง)		MT-4
Tailstock Thrust (Max)(@ 20 Bar) (แรงดันชิ้นงานยันศูนย์กลาง ที่ 20 บาร์)	kgf (กก./ตร.ฟุต)	150
Coolant Tank Capacity (ขนาดถังเก็บน้ำหล่อเย็น)	litre (ลิตร)	60
HYDRAULIC SYSTEM (ระบบไฮดรอลิก)		
Hydraulic Pump Capacity (ขนาดปั๊มไฮดรอลิก)	lpm (ลิตร/นาที)	12
Hydraulic Power Pack Tank Capacity (ขนาดถังเก็บน้ำมันไฮดรอลิก)	litre (ลิตร)	20
System Pressure (ความดันระบบไฮดรอลิก)	Kg/cm ² (กก./ตร.ซม.)	30
Overall Machine Dimensions (LxWxH)(ขนาดเครื่อง)	mm (มม.)	1720 X 1350 X 1720
Overall Weight (Without Packing) (น้ำหนักเครื่อง)	kgs (กก.)	~1850



J-300 LM

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คุณสมบัติเครื่องจักร

- มอเตอร์สปีดแบบไฟฟ้ากระแสสลับที่ให้กำลังงานเต็มพิกัด
- ชุดสปีดแบบความเร็วรอบสูงที่ 5000 รอบต่อนาที
- ชุดสปีดที่มีเสถียรภาพสูงต่อการขยายตัวของอุณหภูมิ
- ระบบรางเคลื่อนแกนเชิงเส้นแบบลิเนียร์ ไกด์เวย์
- ความเร็วเคลื่อนที่สูงสุด 30 เมตรต่อนาที
- ระบบรองรับบอลสกรูแบบพรีโหลดป้องกันระยะคลอนของบอลสกรู
- ระยะเวลาในการเปลี่ยนมีดถึงมีด 0.45 วินาที
- ผ่านการตรวจสอบการเดินแกนแบบวงกลมด้วยเครื่องมือบอลบาร์ ทุกเครื่อง
- ถังน้ำหล่อเย็นแยกจากตัวเครื่องเพื่อความสะอาดในการบำรุงรักษา

อุปกรณ์พื้นฐาน

- มอเตอร์สปีดและมอเตอร์แกนเป็นแบบไฟฟ้ากระแสสลับ (ไอซี)
- ระบบรางเคลื่อนแกนเชิงเส้นแบบลิเนียร์ ไกด์เวย์
- ชุดเทอร์เรตเปลี่ยนมีดควบคุมการหมุนแบบสองทิศทางและแข็งแรง
- ระบบยื่นศูนย์แบบศูนย์เป็น
- มีระบบน้ำมันหล่อลื่นจากศูนย์กลางแบบอัตโนมัติ
- หัวจับชิ้นงานแบบไฮดรอลิกส์กำลังสูง (ขนาด Ø165 มม)
- สามารถควบคุมการทำงานของยื่นศูนย์ผ่านการโปรแกรม
- มีไฟเตือน 3 ระดับสี
- สามารถตีปาดเกลียวแบบปริซิดได้
- ป้อมจับมีดถึงนอก 8 ชุด
- ป้อมจับมีดคว้านใน 4 ชุด
- ป้อมจับมีดปาดหน้า 2 ชุด
- ผ่านการชดเชยความผิดพลาดของการควบคุมตำแหน่งด้วยเครื่องเลเซอร์อินเตอร์ฟีโรมิเตอร์

อุปกรณ์เพิ่มเติม

- หัวจับชิ้นงานแบบไฮดรอลิกส์กำลังสูง (ขนาด Ø200 มม)
- ชุดเทอร์เรตแบบ 12 ป้อมมีด
- ประตู เปิด ปิด อัตโนมัติ
- สายพานลำเลียงเศษพร้อมถังใส่ (ติดตั้งด้านหลัง)
- การต่อเชื่อมกับทางส่ง
- ชุดรองรับชิ้นงาน



Specifications (ลักษณะเฉพาะของเครื่อง)

J- 300 LM

Control System (ระบบควบคุมการทำงาน)		Fanuc Oi TF
CAPACITY (ขีดความสามารถ)		
Swing Over Bed (ขนาดเส้นผ่านศูนย์กลางหมุนเหนือรางเลื่อน)	mm (มม.)	500
Swing Over Carriage (กลิ้งชิ้นงานผ่านป้อมมิตโตสุด)	mm (มม.)	250
Maximum Turning Dia (กลิ้งชิ้นงานได้ขนาดเส้นผ่านศูนย์กลางโตสุด)	mm (มม.)	320
Maximum Turning Length (สามารถกลิ้งชิ้นงานได้ยาวสูงสุด)	mm (มม.)	300
Distance Between Centres (ความยาววัดจากยันศูนย์กลางยันศูนย์กลาง)	mm (มม.)	312
SPINDLE (สปินเดิล)		
Spindle Nose (ชนิดของสปินเดิล)		A2-5
Bore Through Spindle (รูผ่านหัวกลิ้ง)	mm (มม.)	52.5
Front Bearing Bore (ขนาดลูกปืนหัวกลิ้ง)	mm (มม.)	80
Maximum Bar Capacity ³ (ขนาดชิ้นงานผ่านหัวกลิ้ง)	mm (มม.)	42
Maximum Spindle speed ³ (ความเร็วรอบของสปินเดิลสูงสุด)	rpm (รอบ/นาที)	5000
Spindle Motor Power (กำลังพิกัดมอเตอร์ชุดสปินเดิล)	kw กิโลวัตต์	5.5 / 7.5
Standard Chuck Size (ขนาดหัวจับ)	mm (มม.)	165
AXES (แกน)		
Type of Guideways (ชนิดของรางเลื่อน)		Linear Guideways
X-Axis Stroke (ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	165
Z-Axis Stroke (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	300
X & Z Axes Rapid Rate (ความเร็วในการเคลื่อนที่สูงสุดของแนวแกน X & Z)	m/min.(เมตร/นาที)	30
X Axis Ball Screw Dia (ขนาดเส้นผ่านศูนย์กลางของบอลสกรูแกน X)	mm (มม.)	32
Z Axis Ball Screw Dia (ขนาดเส้นผ่านศูนย์กลางของบอลสกรูแกน Z)	mm (มม.)	32
X & Z Axes Motor Torque (ขนาดแรงบิดมอเตอร์แกน X & Z)	Nm (นิวตันเมตร)	7
TOOLING (เครื่องมือ)		
Number of Tools Maximum (จำนวนเครื่องมือ)	Nos. (ชุด)	8
Boring Bar Dia Maximum (ขนาดเส้นผ่านศูนย์กลางของด้ามมิตคว้านใหญ่สุด)	mm (มม.)	40
OD Turning Tool Size (ขนาดของมิตกลิ้งนอกใหญ่สุด)	mm (มม.)	25 X 25
TAILSTOCK (ชุดยันศูนย์กลาง)		
Tailstock Base Travel (ระยะการเคลื่อนที่ของฐานชุดยันศูนย์กลาง)	mm (มม.)	135
Tailstock Quill Travel (ระยะกระบอกยันศูนย์กลางเลื่อนเข้า-ออกได้)	mm (มม.)	75
Tailstock Quill Dia.(เส้นผ่านศูนย์กลางของกระบอกยันศูนย์กลาง)	mm (มม.)	60
Quill Taper (ชนิดของเรียวสวมยันศูนย์กลาง)		MT-4
Tailstock Thrust (Max)(@ 12 Bar) (แรงดันชิ้นงานยันศูนย์กลาง ที่ 12 บาร์)	kgf (กก./ตร.ฟุต)	300
Coolant Tank Capacity (ขนาดถังเก็บน้ำหล่อเย็น)	litre (ลิตร)	110
HYDRAULIC SYSTEM (ระบบไฮดรอลิก)		
Hydraulic Pump Capacity (ขนาดปั๊มไฮดรอลิก)	lpm (ลิตร/นาที)	14
Hydraulic Power Pack Tank Capacity (ขนาดถังเก็บน้ำมันไฮดรอลิก)	litre (ลิตร)	40
System Pressure (ความดันระบบไฮดรอลิก)	Kg/cm ² (กก./ตร.ซม.)	30
Overall Machine Dimensions (LxWxH)(ขนาดเครื่อง)	mm (มม.)	1950 X 1640 X 1985
Overall Weight (Without Packing) (น้ำหนักเครื่อง)	kgs (กก.)	~2500



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SUPER JOBBER ELITE



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คุณสมบัติเครื่องจักร

- มอเตอร์สปีดแบบไฟฟ้ากระแสสลับที่ให้กำลังงานเต็มพิกัด
- ชุดสปีดแบบความเร็วรอบสูงที่ 5000 รอบต่อนาที
- ชุดสปีดแบบที่มีเสถียรภาพสูงต่อการขยายตัวของอุณหภูมิ
- ระบบแรงเคลื่อนแกนเชิงเส้นแบบ บ็อกเวย์
- ความเร็วเคลื่อนที่สูงสุด 30 เมตรต่อนาที
- ระบบรองรับบอลสกรูแบบพรีโหลดป้องกันระยะคลอนของบอลสกรู
- ระยะเวลาในการเปลี่ยนมีดถึงมีด 0.45 วินาที
- ผ่านการตรวจสอบการเดินแกนแบบวงกลมด้วยเครื่องมือบอลบาร์ ทุกเครื่อง
- ถังน้ำหล่อเย็นแยกจากตัวเครื่องเพื่อความสะดวกในการบำรุงรักษา

อุปกรณ์พื้นฐาน

- มอเตอร์สปีดและมอเตอร์แกนเป็นแบบไฟฟ้ากระแสสลับ (เอซี)
- ระบบแรงเคลื่อนแกนเชิงเส้นแบบ บ็อกเวย์
- ชุดเทอร์เร็ดเปลี่ยนมีดควบคุมการหมุนแบบสองทิศทางและแข็งแรง
- ระบบยืนศูนย์แบบศูนย์เป็น
- มีระบบน้ำมันหล่อลื่นจากศูนย์กลางแบบอัตโนมัติ
- หัวจับชิ้นงานแบบไฮดรอลิกส์กำลังสูง (ขนาด Ø210 มม)
- สามารถควบคุมการทำงานของยืนศูนย์ผ่านการโปรแกรม
- มีไฟเตือน 3 ระดับสี
- สามารถตัดาปเกลียวแบบบริจิดได้
- ป้อมจับมีดกลึงนอก 8 ชุด
- ป้อมจับมีดคว้านใน 4 ชุด
- ป้อมจับมีดปาดหน้า 2 ชุด
- ผ่านการชดเชยความผิดพลาดของการควบคุมตำแหน่งด้วยเครื่องเลเซอร์อินเตอร์เฟโรมิเตอร์

อุปกรณ์เพิ่มเติม

- หัวจับชิ้นงานแบบไฮดรอลิกส์กำลังสูง (ขนาด Ø250 มม)
- ชุดเทอร์เร็ดแบบ 12 ป้อมมีด
- ประตู เปิด ปิด อัตโนมัติ
- สายพานลำเลียงเศษพร้อมถังใส่ (ติดตั้งด้านหลังหรือด้านข้าง)
- การต่อเชื่อมกับทางส่ง

Specifications (ลักษณะเฉพาะของเครื่อง)

SUPER JOBBER Elite

Control System (ระบบควบคุมการทำงาน)		Fanuc Oi TF
CAPACITY (ขีดความสามารถ)		
Swing Over Bed (ขนาดเส้นผ่านศูนย์กลางหมุนเหนือรางเลื่อน)	mm (มม.)	500
Swing over carriage (กลิ้งชิ้นงานผ่านป้อมมีดโตสุด)	mm (มม.)	260
Maximum Turning Dia (กลิ้งชิ้นงานได้ขนาดเส้นผ่านศูนย์กลางโตสุด)	mm (มม.)	350
Maximum Turning Length (สามารถกลิ้งชิ้นงานได้ยาวสูงสุด)	mm (มม.)	400
Distance between centres (ความยาววัดจากยันศูนย์กลางถึงยันศูนย์กลาง)	mm (มม.)	425
SPINDLE (สปินเดิล)		
Spindle Nose (ชนิดของสปินเดิล)		A2-6
Bore Through Spindle (รูผ่านหัวกลึง)	mm (มม.)	63
Front Bearing Bore (ขนาดลูกปืนหัวกลึง)	mm (มม.)	100
Maximum Bar Capacity ³ (ขนาดชิ้นงานผ่านหัวกลึง)	mm (มม.)	51
Maximum Spindle speed ³ (ความเร็วรอบของสปินเดิลสูงสุด)	rpm (รอบ/นาที)	5000
Spindle Motor Power (กำลังพิกัดมอเตอร์ชุดสปินเดิล)	kw กิโลวัตต์	7.5 / 11
Standard Chuck Size (ขนาดหัวจับ)	mm (มม.)	210
AXES (แกน)		
Type of Guideways (ชนิดของรางเลื่อน)		Box Guideways
X-Axis Stroke (ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	180
Z-Axis Stroke (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	400
X & Z Axes Rapid Rate (ความเร็วในการเคลื่อนที่สูงสุดของแนวแกน X & Z)	m/min.(เมตร/นาที)	30
X Axis Ball Screw Dia (ขนาดเส้นผ่านศูนย์กลางของบอลสกรูแกน X)	mm (มม.)	32
Z Axis Ball Screw Dia (ขนาดเส้นผ่านศูนย์กลางของบอลสกรูแกน Z)	mm (มม.)	32
X & Z Axes Motor Torque (ขนาดแรงบิดมอเตอร์แกน X & Z)	Nm (นิวตันเมตร)	7
TOOLING (เครื่องมือ)		
Number of Tools Maximum (จำนวนเครื่องมือ)	Nos. (ชุด)	8
Boring Bar Dia Maximum (ขนาดเส้นผ่านศูนย์กลางของด้ามมีดคว้านใหญ่สุด)	mm (มม.)	40
OD Turning Tool Size (ขนาดของมีดกลึงนอกใหญ่สุด)	mm (มม.)	25 X 25
TAILSTOCK (ชุดยันศูนย์กลาง)		
Tailstock Base Travel (ระยะการเคลื่อนที่ของฐานชุดยันศูนย์กลาง)	mm (มม.)	235
Tailstock Quill Travel (ระยะกระบอกยันศูนย์กลางเลื่อนเข้า-ออกได้)	mm (มม.)	100
Tailstock Quill Dia.(เส้นผ่านศูนย์กลางของกระบอกยันศูนย์กลาง)	mm (มม.)	80
Quill Taper (ชนิดของเรียวสวมยันศูนย์กลาง)		MT-4
Tailstock Thrust (Max)(@ 20 Bar) (แรงดันชิ้นงานยันศูนย์กลาง ที่ 20 บาร์)	kgf (กก./ตร.ฟุต)	500
Coolant Tank Capacity (ขนาดถังเก็บน้ำหล่อเย็น)	litre (ลิตร)	110
HYDRAULIC SYSTEM (ระบบไฮดรอลิก)		
Hydraulic Pump Capacity (ขนาดปั๊มไฮดรอลิก)	lpm (ลิตร/นาที)	14
Hydraulic Power Pack Tank Capacity (ขนาดถังเก็บน้ำมันไฮดรอลิก)	litre (ลิตร)	45
System Pressure (ความดันระบบไฮดรอลิก)	Kg/cm ² (กก./ตร.ซม.)	30
Overall Machine Dimensions (LxWxH)(ขนาดเครื่อง)	mm (มม.)	2380 X 1780 X 1780
Overall Weight (Without Packing) (น้ำหนักเครื่อง)	kgs (กก.)	~4000



SJ 500 LM / XL

**Jobber
Elite**



LM - Linear motion guideways
XL - Hardened ground box type guideways (HGBT)

Machine Features

- Powerful AC Spindle motor
- High speed 3500 rpm spindle
- Thermally stabilised spindle
- LM guideways - 30m/min rapid
(or)
Box guideways - 20m/min rapid
- Pre-tensioned ball screw support
- 0.45 sec. turret Index time
- 100% ball bar tested
- LASER calibrated axes
- Separate coolant tank-easy maintenance
- Powered by MachineConnect™



Standard Accessories

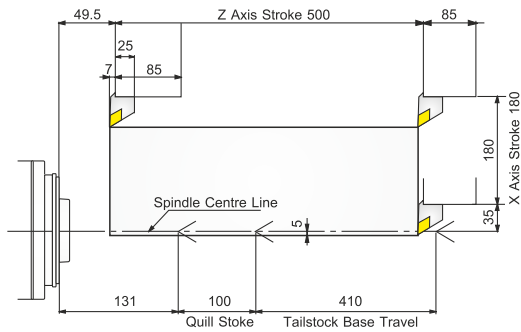
- AC spindle & axes drives
- Precision guideways on both axes
- Heavy duty bi-directional turret (8 station)
- Tailstock with live center
- Automatic centralized oil lubrication
- Hydraulic power operated chuck (Ø200 mm)
- AC unit for electricals
- MachineConnect™
- Programmable quill
- 3 tier lamp
- Rigid tapping
- Drain line oil cooler
- Basic hydraulic system
- LASER calibrated axes
- OD tool holder clamping block (8 nos)
- Boring bar holder (4 nos)
- Facing tool holder (2 nos)
- Set of sleeves

Optional Accessories

- Hydraulic power operated Chuck (Ø250 mm)
- Voltage stabilizer - 25 kVA
- Chip conveyor rear/side
- TPM - Trak productivity monitoring system
- Tailstock with built in centre
- Auto door
- 12 station turret
- High pressure coolant system

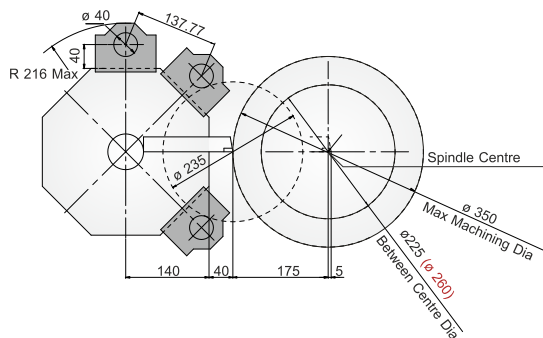
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Machining Range Diagram

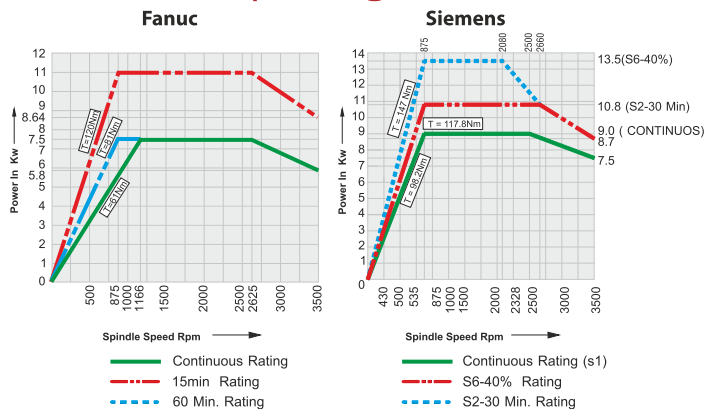


Interference Diagram

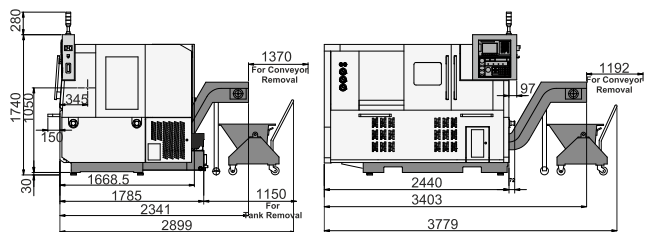
(8 Station Turret)



Power Torque Diagram



Overall Views



All dimensions are in mm

Manufactured by:



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Specifications

SJ 500 LM / XL

Control System	Fanuc / Siemens
Smart Feature	MachineConnect™
Capacity	
Swing Over Bed	500 mm
Distance Between Centers ¹	550 mm
Maximum Turning Dia ²	350 mm
Between Centre Turning Dia	225 / 260 mm
Maximum Turning Length ¹	500 mm
Spindle	
Spindle Nose	A2-6
Bore Through Spindle	63 mm
Front Bearing Bore	100 mm
Maximum Bar Capacity ³	42 mm
Maximum Spindle speed ³	3500 rpm
Spindle Motor Power - Fanuc (Continuous / 15 min. Rating)	7.5/ 11 kW
Spindle Motor Power-Siemens (Continuous / 30min/S6-40%rating)	9 / 10.8 / 13.5 kW
Full Power Range	Fanuc 1166 - 2625 rpm Siemens 875 - 2500 rpm
Standard Chuck Size	200 mm
Axes	
Type of Guideways	Linear motion / HGBT
X-Axis Stroke	180 mm
Z-Axis Stroke	500 mm
X & Z Axes Rapid Rate	30 / 20 m/min
Tooling	
Number of Tools Maximum	8
Boring Bar Dia Maximum	40 mm
OD Turning Tool Size	25 x 25 mm
Tailstock	
Tailstock Base Travel	410 mm
Tailstock Quill Travel	100 mm
Tailstock Quill Dia.	80 mm
Quill Taper	MT-4
Hydraulic System	
Hydraulic Pump Capacity	14 lpm
Hydraulic Power Pack Tank Capacity	45 litre
System Pressure	30 Kg/cm ²
Coolant Tank Capacity	110 litre
Overall Machine Dimensions (L x W x H)	2540 x 1785 x 2050 mm
Overall Weight (Without Packing)	~ 4000 kg

¹ Refer machining range diagram, ² Refer Interference diagram

³ With appropriate work holding, HGBT - Hardened Ground Box Type

() Values mentioned in bracket are optional

Note:

Specification are correct at the time of print. Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.



LT-20C CLASSIC



STANDARD FEATURES

- Cartridge type spindle
- AC spindle drives
- AC axes drives
- High speed bi-directional tool turret
- Hardened and ground guide way strips
- Turcite anti-slipstick liners on slide way surfaces
- Tailstock with Add-on type live centre
- Automatic centralized oil lubrication
- Built-in lighting system & over load trip clutch for axes
- OD tool holder damping blocks (8 No's)
- Boring bar holder (4 Nos)
- Facing tool holder (2 Nos)
- Set of sleeves
- Coolant systems with side tray
- Programmable quill

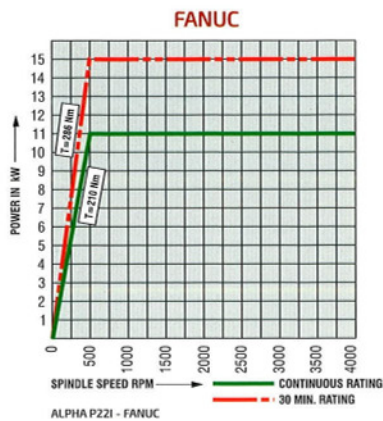
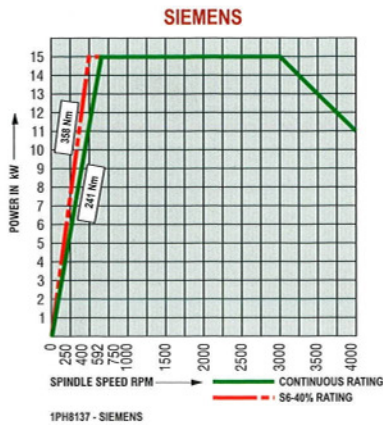
OPTIONAL FEATURES

- Fully tooled up solutions to meet customer needs
- Chip conveyor at side or rear
- A wide variety of power operated work-holding (chucks, collets, fixtures, etc) and tooling
- 12 station Turret
- Auto door
- Tool touch probe
- Parts catcher
- Bar feeder
- Programmable Tailstock
- Steady Rest
- VDI Disc on Turret
- A2-8 spindle
- Manual guide i
- Door interlock
- Built in live center for Tailstock
- Torque enhancement by star delta

(Available in LM version also)

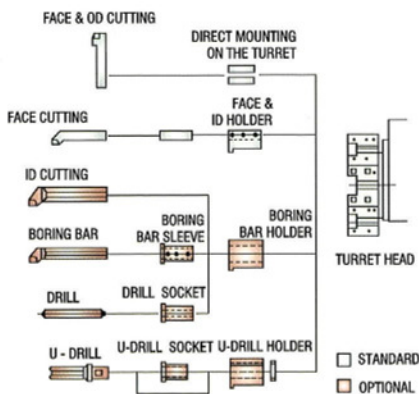
LM - Linear motion guide ways

POWER TORQUE DIAGRAM



Note : Power Torque diagrams for other speeds available on request

TOOLING DIAGRAM



SPECIFICATIONS

DESCRIPTION	UNITS	LT-20C Classic / Classic LM
Control Systems		Fanuc Oi-TD / Siemens 828 D
CAPACITY		
Swing Over Bed	mm	550
Distance Between Centres ¹	mm	740
Maximum Turning Dia ²	mm	370
Between Centre Turning Dia	mm	290 / 330
Maximum Turning Length ³	mm	670
SPINDLE		
Spindle Nose		A2-6 (A2-8)
Bore Through Spindle	mm	63(86)
Front Bearing Bore	mm	100(120)
Maximum Bar Capacity ³	mm	51(74)
Maximum Spindle speed ³	mm	4000(3000)
Spindle Motor Power (30min. Rating)	kw	15 / 15
Spindle Motor Power (Continuous Rating) (F/S)	kw	11 / 15
Full Power Range	rpm	500-4000(375-3000)
Standard Chuck Size	mm	250
AXES		
Types of Guideways		Hardened & ground Box type Steel Guideways Linear Motion Roller Guideways
X-Axis Stroke	mm	205
Z-Axis Stroke	mm	670
X & Z Axes Rapid Rate	m / min.	20
TOOLING		
Number of Tools Maximum		8(12)
Boring Bar Dia Maximum	mm	40
OD Turning Tool Size	mm	25 X 25
TAILSTOCK		
Tailstock Base Travel	mm	425
Tailstock Quill Travel	mm	120
Tailstock Quill Dia.	mm	80
Quill Taper		MT-4
Coolant Tank Capacity	litre	160
HYDRAULIC SYSTEM		
Hydraulic Pump Capacity	lpm	14
Hydraulic Power Pack Tank Capacity	litre	45
System Pressure	Kg / cm ²	30
Overall Machine Dimensions (LxWxH)	mm	3310 x 1535 x 1760
Overall Weight (Without Packing)	kg	~5000

Specifications correct at the time of print. Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering.

¹ Refer machining range diagram

² Refer interference diagram

³ With Appropriate work holding

The values mentioned in red colour are for LM version

Note:

a. Figures in Bracket are optional

b. Siemens 828D Basic T can also be offered. Details on request.

c. Features shown may not be part of the standard equipment.

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Drill Tap Machining Centers



SPARK

Specifications (ลักษณะเฉพาะของเครื่อง)

SPARK

CONTROL SYSTEMS (ชุดควบคุมการทำงาน)		Fanuc Oi MF
CAPACITY (ขีดความสามารถ)		
Table longitudinal travel (X - Axis)(ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	300
Table cross travel (Y - Axis) (ระยะเคลื่อนที่แนวแกน Y)	mm (มม.)	250
Headstock travel (Z - Axis) (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	250
Distance from Spindle nose face to table top (ระยะระหว่างปลายชุดหัวกัดถึงโต๊ะงาน)	mm (มม.)	150 - 400
TABLE (โต๊ะงาน)		
Table size (ขนาดโต๊ะงาน)	mm (มม.)	500 x 250
T-Slot DIM. (N X W X P)(จำนวนและขนาดร่องสำหรับยึดงาน)	mm (มม.)	3 x 14 x 80
Max. load on table(โต๊ะงานรับน้ำหนักชิ้นงานสูงสุด)	kgs (กิโลกรัม)	150
SPINDLE (ชุดสปินเดิล)		
Spindle taper(ขนาดความเรียวของรูในเพลาสปินเดิล)		7 / 24 No.30
Spindle speed(ความเร็วรอบชุดสปินเดิล)	rpm (รอบ/นาที)	60 - 6000
Spindle power (กำลังมอเตอร์ขับเคลื่อนชุดสปินเดิล)	kw (กิโลวัตต์)	3.7 / 5.5
FEED (การเคลื่อนที่)		
Feed rate (ความเร็วสูงสุดในการกัดชิ้นงานของแกน X / Y / Z)	mm/min.(มม/นาที)	1 - 5000
Rapid traverse - X / Y / Z (ความเร็วการเคลื่อนที่สูงสุดของแนวแกน)	m/min.(เมตร/นาที)	25 / 25 / 18
X / Y / Z Axis Motor Torque (กำลังมอเตอร์ขับเคลื่อนแกน)	Nm (นิวตันเมตร)	3.5 / 3.5 / 7
Position accuracy (ความถูกต้องในการควบคุมตำแหน่งการเคลื่อนที่)	mm (มม.)	0.010
Repeatability (ความแม่นยำในการขับเคลื่อนแบบซ้ำ)	mm (มม.)	± 0.003
Guideways Type (ชนิดของรางเลื่อน)		Linear motion Guideways
AUTOMATIC TOOL CHANGER (ชุดเครื่องมือ)		
Tool change system (ลักษณะของช่องใส่มีด)		Disc Armless
Tool storage capacity (จำนวนมีดที่จัดเก็บได้)	Nos.(ชุด.)	6
Max. tool dia (ขนาดของมีดโตสุด)	mm (มม.)	80
Max. tool dia with adjacent pockets empty (ขนาดเส้นผ่านศูนย์กลางของมีดที่ใหญ่ที่สุด)	mm (มม.)	-
Max. tool length (สามารถจับมีดยาวได้สุด)	mm (มม.)	200
Max. tool weight (รับน้ำหนักของมีดได้)	kgs (กิโลกรัม)	2.5
Chip to chip time (ความเร็วในการเปลี่ยนมีด)	sec.(วินาที)	7
Tool shank type (ชนิดของมีดกัดงาน)		BT - 30 / BBT - 30
Pull Stud (ชนิดของพลุสตัด)		DIN69872 / MAS403
MACHINE SIZE (ขนาดเครื่อง)		
Machine Width (ความกว้างเครื่อง)	mm (มม.)	1350
Machine Depth (ความลึกเครื่อง)	mm (มม.)	1900
Machine Height (ความสูงเครื่อง)	mm (มม.)	2350
Machine weight (น้ำหนักเครื่อง)	kgs (กิโลกรัม)	~1800
Power supply (Basic Machine) (ขนาดกำลังไฟฟ้าที่ใช้)	KVA (กิโลวัตต์แอมป์)	15

HIGH SPEED

Drill Tap Machining Centers



DTC - 400

Specifications (ลักษณะเฉพาะของเครื่อง)

DTC - 400

CONTROL SYSTEMS (ชุดควบคุมการทำงาน)		Fanuc Oi MF
CAPACITY (ความสามารถ)		
Table longitudinal travel (X - Axis)(ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	500
Table cross travel (Y - Axis) (ระยะเคลื่อนที่แนวแกน Y)	mm (มม.)	400
Headstock travel (Z - Axis) (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	320
Distance from Spindle nose face to table top (ระยะระหว่างปลายชุดหัวกัดถึงโต๊ะงาน)	mm (มม.)	235 - 555
TABLE (โต๊ะงาน)		
Table size (ขนาดโต๊ะงาน)	mm (มม.)	650 x 450
T-Slot DIM. (N X W X P)(จำนวนและขนาดร่องสำหรับยึดงาน)	mm (มม.)	3 x 14 x 125
Max. load on table(โต๊ะงานรับน้ำหนักชิ้นงานสูงสุด)	kgs (กิโลกรัม)	200
SPINDLE (ชุดสปินเดิล)		
Spindle taper(ขนาดความเรียวของรูในเพลลาชุดสปินเดิล)		7 / 24 No.30
Spindle speed(ความเร็วรอบชุดสปินเดิล)	rpm (รอบ/นาที)	120 - 12000
Spindle power (กำลังมอเตอร์ขับเคลื่อนชุดสปินเดิล)	kw (กิโลวัตต์)	3.7 / 5.5
FEED (การเคลื่อนที่)		
Feed rate (ความเร็วสูงสุดในการกัดชิ้นงานของแกน X / Y / Z)	mm/min.(มม/นาที)	1 - 10000
Rapid traverse - X / Y / Z (ความเร็วการเคลื่อนที่สูงสุดของแนวแกน)	m/min.(เมตร/นาที)	48 / 48 / 40
X / Y / Z Axis Motor Torque (กำลังมอเตอร์ขับเคลื่อนแกน)	Nm (นิวตันเมตร)	11 / 11 / 20
Position accuracy (ความแม่นยำในการขับเคลื่อนตลอดระยะการเคลื่อน)	mm (มม.)	0.010
Repeatability (ความแม่นยำในการขับเคลื่อนแบบซ้ำ)	mm (มม.)	± 0.003
Guideways Type (ชนิดของรางเลื่อน)		Linear motion Guideways
AUTOMATIC TOOL CHANGER (เครื่องมือ)		
Tool change system (ลักษณะของช่องใส่เครื่องมือ)		Disc Armless
Tool storage capacity (สามารถบรรจุเครื่องมือได้)	Nos.(ชุด.)	16
Max. tool dia (ขนาดของเครื่องมือโต)	mm (มม.)	80
Max. tool dia with adjacent pockets empty (ขนาดของเครื่องมือโตสุดโดยที่ช่องใส่เครื่องมือข้างๆ ว่าง)	mm (มม.)	
Max. tool length (สามารถจับเครื่องมือยาวได้สุด)	mm (มม.)	200
Max. tool weight (รับน้ำหนักของเครื่องมือได้)	kgs (กิโลกรัม)	2.5
Chip to chip time (ความเร็วในการเปลี่ยนเครื่องมือ)	sec.(วินาที)	3.1
Tool shank type (ชนิดของเครื่องมือกัดงาน)		BT - 30 / BBT - 30
Pull Stud (ชนิดของพลุสตัด)		DIN69872 / MAS403
MACHINE SIZE (ขนาดเครื่อง)		
Machine Width (ความกว้างเครื่อง)	mm (มม.)	1700
Machine Depth (ความลึกเครื่อง)	mm (มม.)	2600
Machine Height (ความสูงเครื่อง)	mm (มม.)	2500
Machine weight (น้ำหนักเครื่อง)	kgs (กิโลกรัม)	~3300
Power supply (Basic Machine) (ขนาดกำลังไฟฟ้าที่ใช้)	KVA	15

HIGH PRODUCTIVITY

Vertical Machining Centers



MCV-450

Specifications (ลักษณะเฉพาะของเครื่อง)

MCV - 450

CONTROL SYSTEMS (ชุดควบคุมการทำงาน)		Fanuc Oi MF
CAPACITY (ความสามารถ)		
Table longitudinal travel (X - Axis)(ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	800
Table cross travel (Y - Axis) (ระยะเคลื่อนที่แนวแกน Y)	mm (มม.)	450
Headstock travel (Z - Axis) (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	500
Distance from Spindle nose face to table top (ระยะระหว่างปลายชุดหัวกัดถึงโต๊ะงาน)	mm (มม.)	175 - 675
TABLE (โต๊ะงาน)		
Table size (ขนาดโต๊ะงาน)	mm (มม.)	1000 x 450
T-Slot DIM. (N X W X P)(จำนวนและขนาดร่องสำหรับยึดงาน)	mm (มม.)	4 x 18 x 100
Max. load on table(โต๊ะงานรับน้ำหนักชิ้นงานสูงสุด)	kgs (กิโลกรัม)	400
SPINDLE (ชุดสปินเดิล)		
Spindle taper(ขนาดความเรียวของรูในเพลาสปินเดิล)		7 / 24 No.40
Spindle speed(ความเร็วรอบชุดสปินเดิล)	rpm (รอบ/นาที)	80 - 8000
Spindle power (กำลังมอเตอร์ขับเคลื่อนชุดสปินเดิล)	kw (กิโลวัตต์)	7.5 / 11
FEED (การเคลื่อนที่)		
Feed rate (ความเร็วสูงสุดในการกัดชิ้นงานของแกน X / Y / Z)	mm/min.(มม/นาที)	1 - 10000
Rapid traverse - X / Y / Z (ความเร็วการเคลื่อนที่สูงสุดของแนวแกน)	m/min.(เมตร/นาที)	30 / 30 / 30
X / Y / Z Axis Motor Torque (กำลังมอเตอร์ขับเคลื่อนแกน)	Nm (นิวตันเมตร)	11 / 11 / 20
Position accuracy (ความถูกต้องในการควบคุมตำแหน่งการเคลื่อนที่)	mm (มม.)	0.010
Repeatability (ความแม่นยำในการขับเคลื่อนแบบซ้ำ)	mm (มม.)	± 0.003
Guideways Type (ชนิดของรางเลื่อน)		Linear motion Guideways
AUTOMATIC TOOL CHANGER (เครื่องมือ)		
Tool change system (ลักษณะของช่องใส่เครื่องมือ)		Twin Arm
Tool storage capacity (จำนวนมิติที่จัดเก็บได้)	Nos.(ชุด.)	24
Max. tool dia (ขนาดของเครื่องมือโต)	mm (มม.)	80
Max. tool dia with adjacent pockets empty (ขนาดเส้นผ่านศูนย์กลางของมิติที่ใหญ่ที่สุด)	mm (มม.)	155
Max. tool length (สามารถจับมิติได้ยาวสุด)	mm (มม.)	250
Max. tool weight (รับน้ำหนักของมิติได้)	kgs (กิโลกรัม)	8
Chip to chip time (ความเร็วในการเปลี่ยนมิติ)	sec.(วินาที)	5.3
Tool shank type (ชนิดของมิติกัดงาน)		BT - 40 / HSK - A63
Pull Stud (ชนิดของพลุสตัด)		DIN69872 / MAS403
MACHINE SIZE (ขนาดเครื่อง)		
Machine Width (ความกว้างเครื่อง)	mm (มม.)	2200
Machine Depth (ความลึกเครื่อง)	mm (มม.)	3100
Machine Height (ความสูงเครื่อง)	mm (มม.)	2500
Machine weight (น้ำหนักเครื่อง)	kgs (กิโลกรัม)	~5500
Power supply (Basic Machine) (ขนาดกำลังไฟฟ้าที่ใช้)	KVA (กิโลวัตต์แอมป์)	25

High Performance... Now Affordable...

VERTICAL MACHINING CENTERS



1060 V

Specifications (ลักษณะเฉพาะของเครื่อง)

1060V

CONTROL SYSTEMS (ชุดควบคุมการทำงาน)		Fanuc Oi MF
CAPACITY (ความสามารถ)		
Table longitudinal travel (X - Axis)(ระยะเคลื่อนที่แนวแกน X)	mm (มม.)	1000
Table cross travel (Y - Axis) (ระยะเคลื่อนที่แนวแกน Y)	mm (มม.)	600
Headstock travel (Z - Axis) (ระยะเคลื่อนที่แนวแกน Z)	mm (มม.)	600
Distance from Spindle nose face to table top (ระยะระหว่างปลายชุดหัวกัดถึงโต๊ะงาน)	mm (มม.)	100 - 700
TABLE (โต๊ะงาน)		
Table size (ขนาดโต๊ะงาน)	mm (มม.)	1200 x 600
T-Slot DIM. (N X W X P)(จำนวนและขนาดร่องสำหรับยึดงาน)	mm (มม.)	5 x 18 x 100
Max. load on table(โต๊ะงานรับน้ำหนักชิ้นงานสูงสุด)	kgs (กิโลกรัม)	800
SPINDLE (ชุดสปินเดิล)		
Spindle taper(ขนาดความเรียวของรูในเพลาสปินเดิล)		7 / 24 No.40
Spindle speed(ความเร็วรอบชุดสปินเดิล)	rpm (รอบ/นาที)	80 - 8000
Spindle power (กำลังมอเตอร์ขับเคลื่อนชุดสปินเดิล)	kw (กิโลวัตต์)	11 / 15
FEED (การเคลื่อนที่)		
Feed rate (ความเร็วสูงสุดในการกัดชิ้นงานของแกน X / Y / Z)	mm/min.(มม/นาที)	1 - 10000
Rapid traverse - X / Y / Z (ความเร็วการเคลื่อนที่สูงสุดของแนวแกน)	m/min.(เมตร/นาที)	32 / 32 / 24
X / Y / Z Axis Motor Torque (กำลังมอเตอร์ขับเคลื่อนแกน)	Nm (นิวตันเมตร)	20 / 20 / 36
Position accuracy (ความถูกต้องในการควบคุมตำแหน่งการเคลื่อนที่)	mm (มม.)	0.010
Repeatability (ความแม่นยำในการขับเคลื่อนแบบซ้ำ)	mm (มม.)	± 0.003
Guideways Type (ชนิดของรางเลื่อน)		Linear motion Guideways
AUTOMATIC TOOL CHANGER (เครื่องมือ)		
Tool change system (ลักษณะของช่องใส่เครื่องมือ)		Twin Arm
Tool storage capacity (จำนวนมิติที่จัดเก็บได้)	Nos.(ชุด.)	24
Max. tool dia (ขนาดของเครื่องมือโต)	mm (มม.)	80
Max. tool dia with adjacent pockets empty (ขนาดเส้นผ่านศูนย์กลางของมิติที่ใหญ่ที่สุด)	mm (มม.)	155
Max. tool length (สามารถจับมิติได้ยาวสุด)	mm (มม.)	250
Max. tool weight (รับน้ำหนักของมิติได้)	kgs (กิโลกรัม)	8
Chip to chip time (ความเร็วในการเปลี่ยนมิติ)	sec.(วินาที)	5.3
Tool shank type (ชนิดของมิกกัดงาน)		BT - 40 / HSK - A63
Pull Stud (ชนิดของพลุสตัด)		DIN69872 / MAS403
MACHINE SIZE (ขนาดเครื่อง)		
Machine Width (ความกว้างเครื่อง)	mm (มม.)	3110
Machine Depth (ความลึกเครื่อง)	mm (มม.)	2400
Machine Height (ความสูงเครื่อง)	mm (มม.)	2800
Machine weight (น้ำหนักเครื่อง)	kgs (กิโลกรัม)	~9000
Power supply (Basic Machine) (ขนาดกำลังไฟฟ้าที่ใช้)	KVA (กิโลวัตต์แอมป์)	25



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Website : machinery.co.th E-mail : sales@machinery.co.th

HORIZONTAL

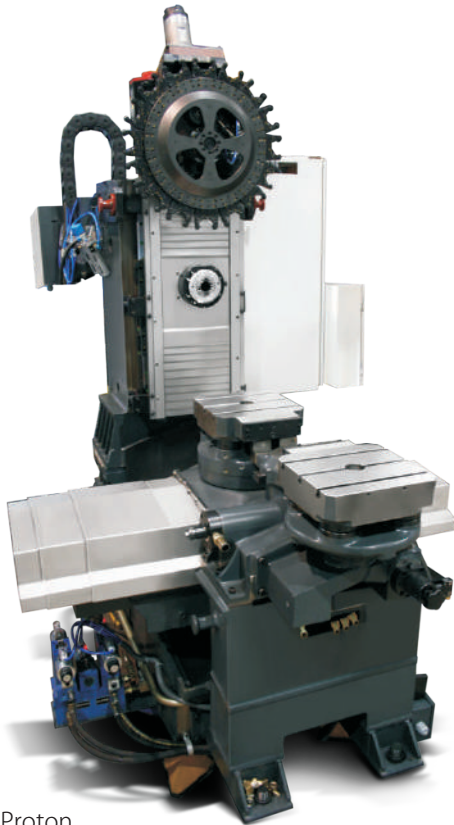
Machining Centers HMC & CMH Series



PROTON 40
HMC - 400 XL
FIER - H
CMH - 400
CMH - 400 XL
CMH - 500
CMH - 500/50



Horizontal Machining Centers



Proton

The surge in demand for high technological products has provided a great opportunity for the development of horizontal machining centers in the country. Leveraging on the successful development of vertical machining centers, AMS has developed horizontal machining centers to cater to the high demand for such products. In the past decade AMS has designed and developed horizontal machining centers with different configurations and sizes to meet the requirement of machines with higher productivity. The new generation of horizontal machining centers includes the standard table moving machine series (HMC) as well as the moving column machine series (CMH). Both the varieties have created a large market for themselves based on the application. AMS horizontal machines are designed and manufactured to suit production application. It is a constant endeavor of our engineering team to enhance the reliability and performance of these machine models.

The HMC series which is on an economical platform, has undergone continuous evolution and the new generation machines include the preferred products with the most favored specifications. This configuration has machines with the X and Z axes provided to the table and the spindle moves in the Y axis alone. The HMC 400 XL machine in its standard form comes with an index table and the automatic pallet changer is offered as an option & In CMH series all 3 axes provided to column only & Table stationary.

The column moving machines (CMH) are the new generation of horizontal machining centers introduced by AMS in the recent years. Continuous demand from the customers has inspired AMS to adapt the column moving configurations to meet the varying application requirements.

High Speed Spindles

Quadruplex back to back arrangement, optimally pre-loaded and grease lubricated. The spindles are dynamically balanced to perform better.



BT-40



BT-50



Automatic Tool Changer

CMH 400 /CMH 500 comes with 20 / 30 / 40 & 60 tool Automatic Tool Changer as standard feature.

CMH 500 comes with 20 tool ATC as standard feature for BT 50 Spindle taper.

Proton & HMC 400 XL come with 16 & 24 tool ATC as standard feature. 30 tool ATC can be provided as an optional feature for both HMCs.

Fier H can be equipped with 20 / 30 tool ATC with BT 40 spindle taper.

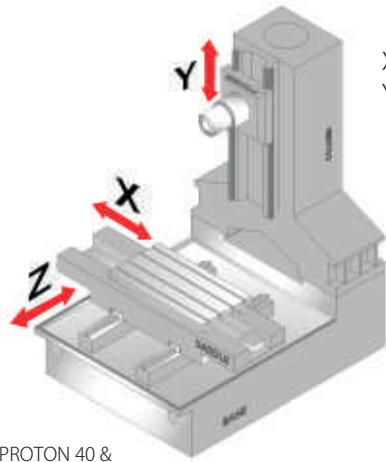
Ease of Operation

In the design of our machines, in addition to the functional aspects, ergonomics are given equal priority. Optimum job loading height, easy access to the spindle, ease of chip removal, maintenance friendliness are some of the key aspects considered. We also provide Total Productive Maintenance (TPM) features on the machines as options. It is our continuous endeavor to improve the existing products to cater to the needs and expectations of the customer.



Axes configuration

HMC – Stationary column

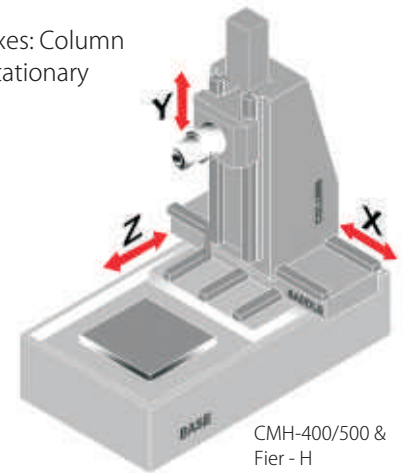


X, Z axes: Table
Y axis: Column

PROTON 40 &
HMC 400 XL

HMC – Column moving &
Stationary table (CMH)

X, Y, Z axes: Column
Table: Stationary

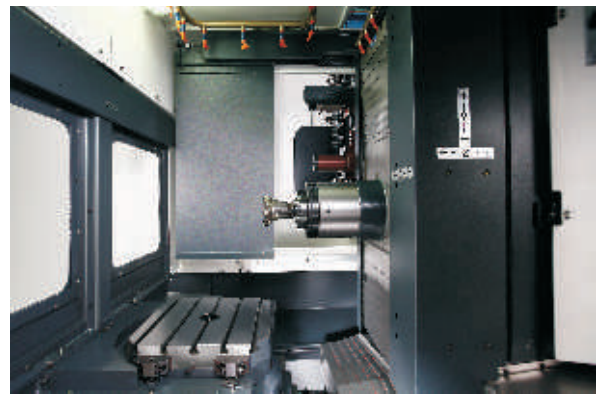


CMH-400/500 &
Fier - H

Automatic Pallet Changer

Automatic pallet changer is an optional feature in Proton 40, HMC-400 XL & CMH series

The pallets can be mounted on an index table or a rotary table as an option



Total Solutions

- Process identification
- Fixture development & interface
- Automation integration
- Complete prove-out

Tooled up solutions

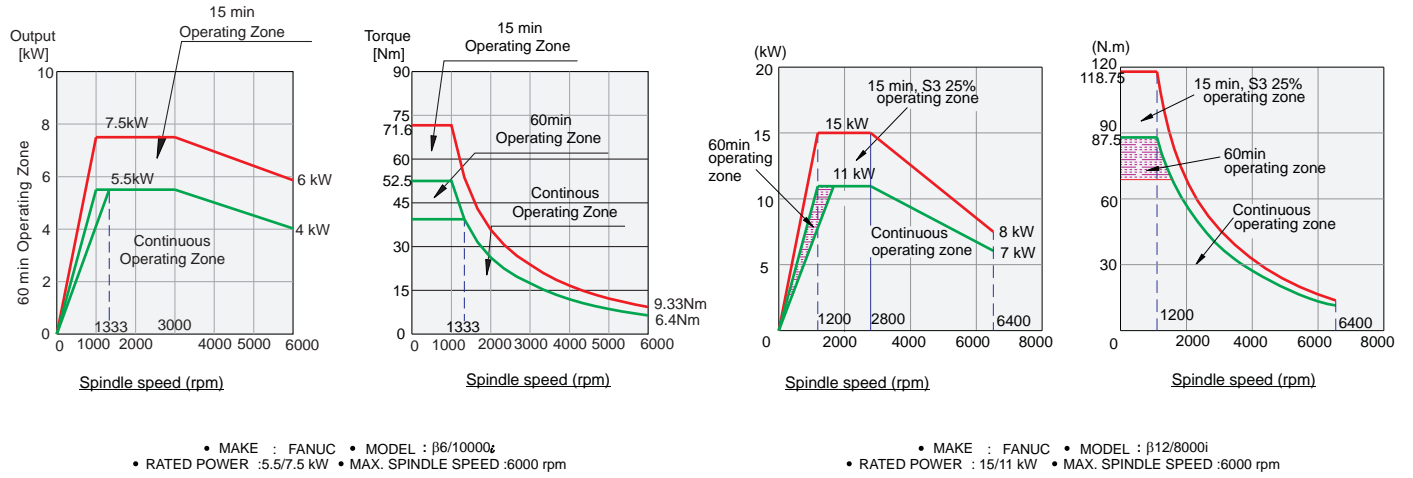
The application engineering team of AMS has wide experience in identifying the process for machining and providing suitable workholding and tooling solutions. This ranges across the markets from high speed & productivity solutions for the automotive industry to the high precision and accuracy solutions for the aerospace or mould making industry. This not only includes support in selection of the most suitable machines but also designing the fixtures and identification of the ideal cutting tool for the selected process. The entire prove out of the components to meet the desired cycle time can be undertaken when solutions are opted for.



Spindle power – Torque diagram

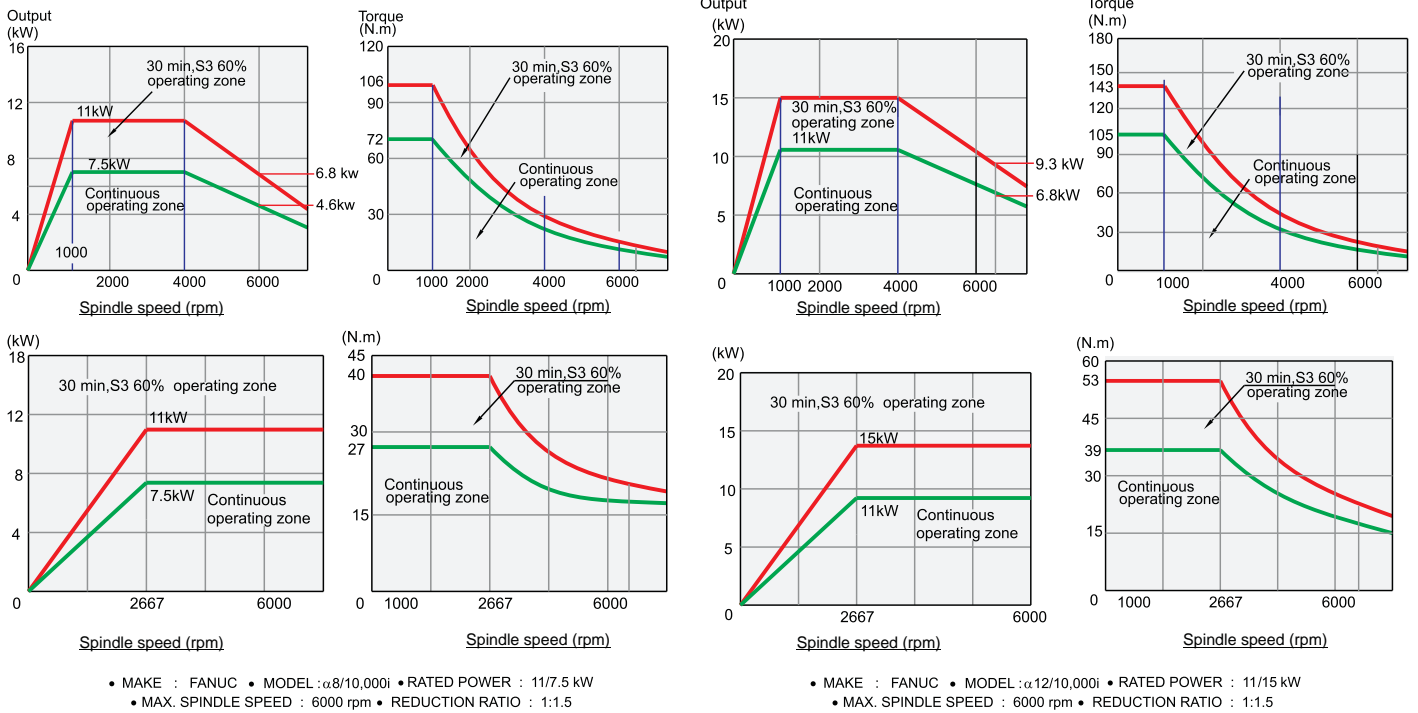
Proton 40

HMC-400 XL & CMH-400

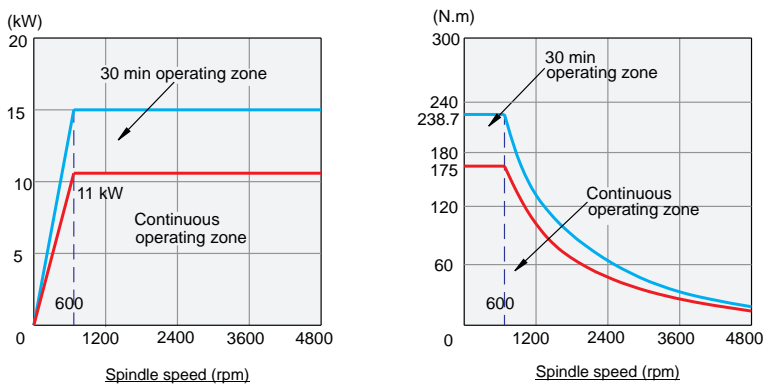


CMH-400 XL

CMH 500

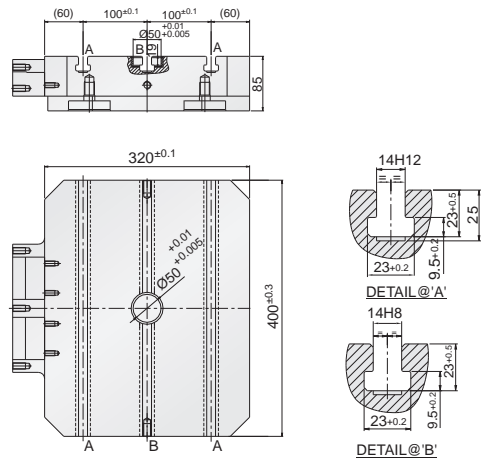


CMH 500/50



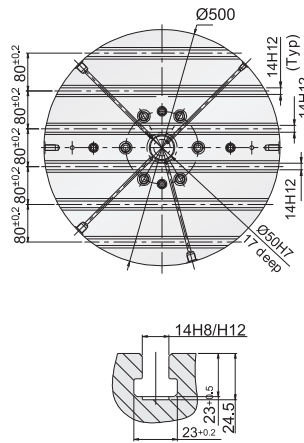
Pallet Details

Proton 40

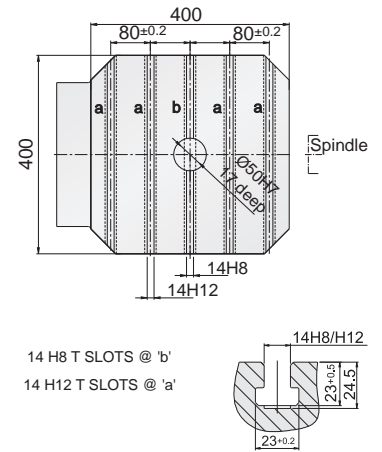


HMC 400 XL

Work Index Table Detail

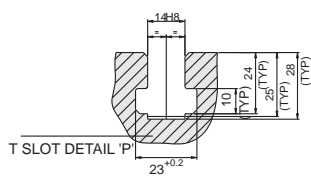
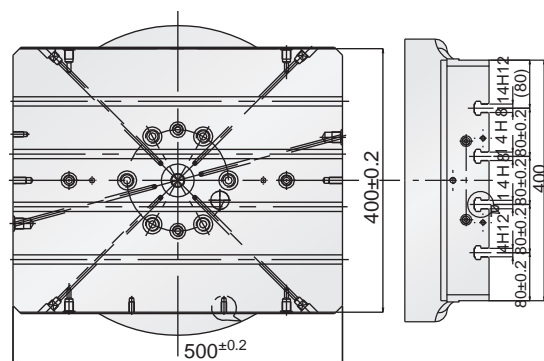


Work Pallet Details



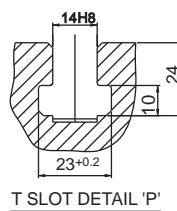
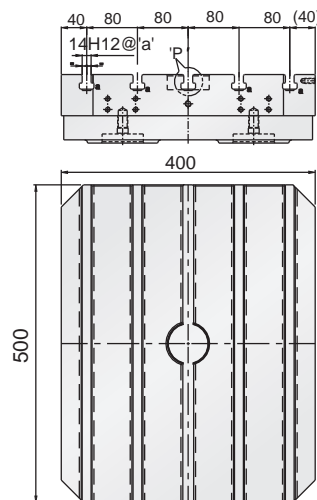
CMH 400

Work Index Table Details



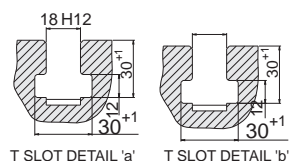
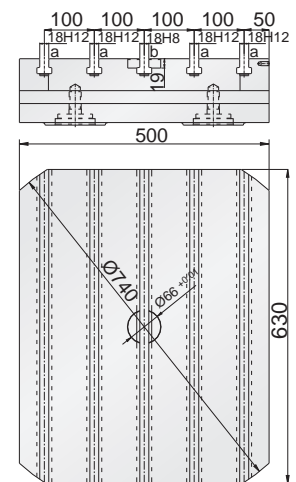
CMH-400 & Fire H

Work Pallet Details



CMH 500

Work Pallet Details



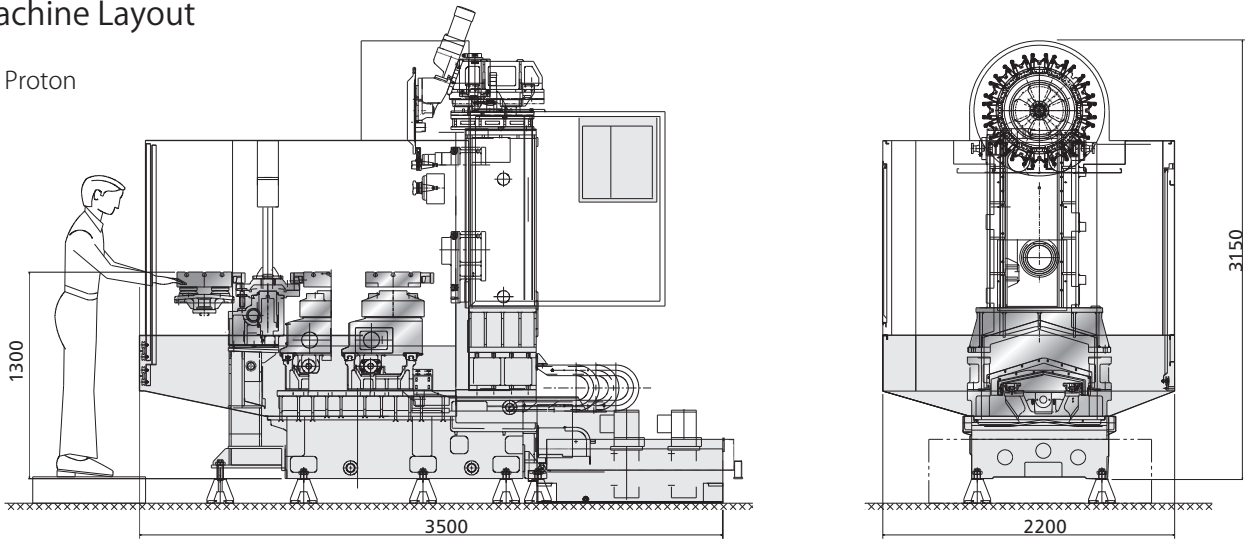
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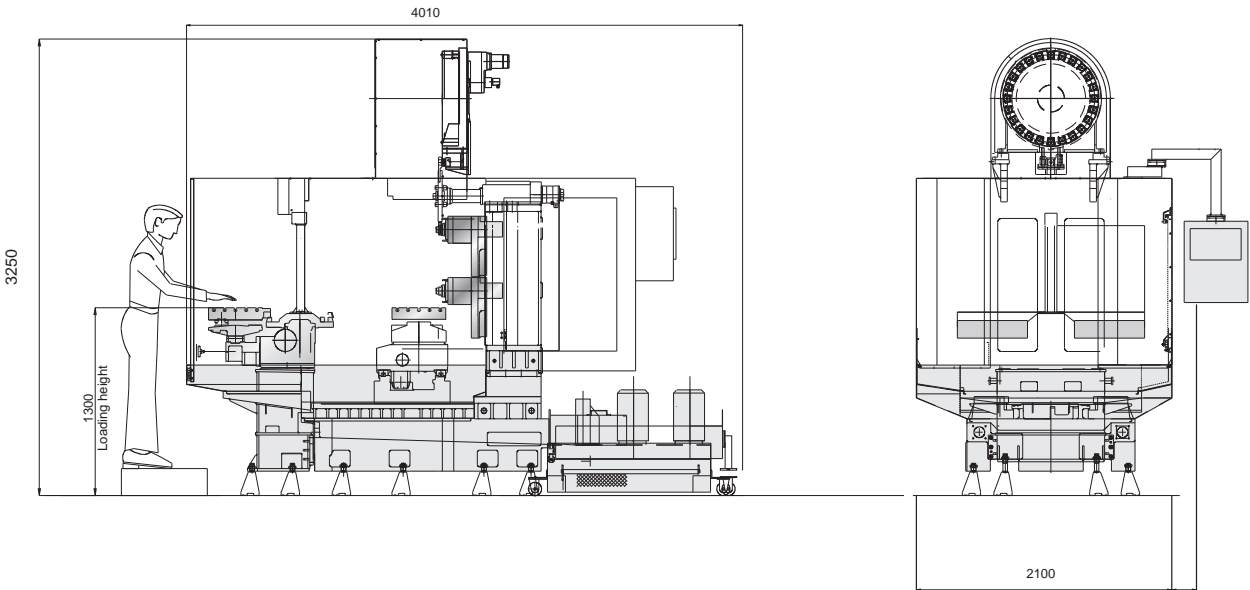
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Machine Layout

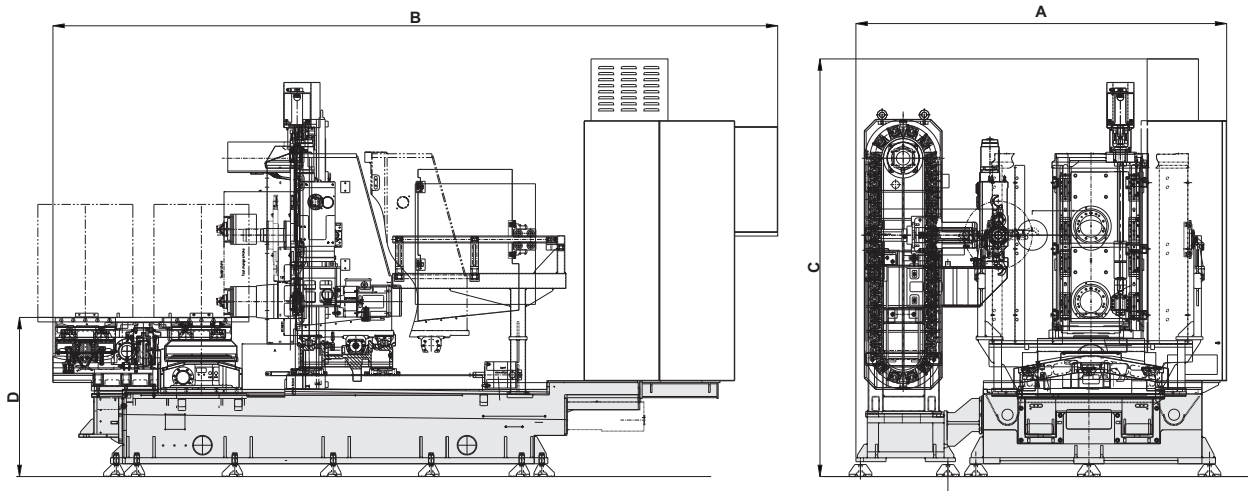
Proton



HMC - 400 XL



CMH-400 / CMH-500



	A (width)	B (depth)	C (height)	D
PROTON	2200	3500	3150	1200 / 1300
HMC - 400 XL	2100	4010	3250	1200 / 1315
FIER-H	1900	4200	3000	1160
CMH 400	2800	4200	2700	1050
CMH 400 XL	2800	4200	2700	1050
CMH 500	3300	5500	3000	1060
CMH 500 / 50	3500	5500	3000	1060

Horizontal Machining Centers

COLUMN TYPE	STATIONARY			MOVING				
	Unit	PROTON	HMC - 400 XL	FIER-H	CMH 400	CMH 400 XL	CMH 500	CMH 500 / 50 CMH 500 XL CMH 500/50 XL
CAPACITY								
Longitudinal travel (X - Axis)	mm	500	600	550	600	600	800	800
Headstock travel (Y - Axis)	mm	400	450	500	500	500	550	550
Cross travel (Z - Axis)	mm	400	415	500	500	500	550	550
Spindle center to table / pallet	mm	125-525 (P)	140 - 590 (I.T)	110 - 610	110 - 610	110 - 610	120 - 670	150 - 700
Table center to spindle face	mm	160-560	165 - 580	160 - 660	150 - 650	150 - 650	150 - 700	150 - 700
Index table height from floor (Std. m/c)	mm	1200 / 1300	1200 / 1315	1160	1050	1050	1060	1060
TABLE								
Table / Pallet size	mm x mm	400x320	Ø500 / 400 x 400	400 x 500	400 x 500 (2)	400 x 500	500 x 630	500 x 630
T - slot (No.x size x pitch)		3 x 14 x 100	6/5 x 14 x 80	5 x 14 x 80	5 x 14 x 80	5 x 14 x 80	5 x 18 x 100	5 x 18 x 100
Number of indexing position	Deg x Pos	1° x 360	1° x 360	1° x 360	1° x 360	1° x 360	1° x 360	1° x 360
Max. load on Table / Pallet	kgf	200	400	400	400	400	500	500
SPINDLE & AXES								
Spindle taper		7 / 24 No. 40	7 / 24 No. 40	7 / 24 No.40	7 / 24 No.40	7 / 24 No.40	7 / 24 No.40	7 / 24 No.50
Spindle speed - Std.	rpm	60 - 6000	60 - 6000	60-6000	60 - 6000	60 - 6000	60 - 6000	40 - 4000
Spindle speed - Opt	rpm	80 - 8000	80 - 8000	80-8000	80 - 8000	80 - 8000 / 100 - 10000	80 - 8000 / 100 - 10000	50-5000
Spindle power - Std	kW	7.5 / 5.5	11 / 7.5	7.5 / 5.5	11 / 7.5	11 / 7.5	15 / 11	15 / 11
Spindle power - Opt	kW	11 / 7.5	15 / 11	11 / 7.5	15 / 11	15 / 11		
Rapid traverse - X / Y / Z	m/min	40 / 40 / 40	40 / 40 / 32	40/40/40	40 / 40 / 32	50 / 50 / 40	32 / 32 / 32 40 / 40 / 40*	32 / 32 / 32 40 / 40 / 40*
Feed rate	mm/min	1 - 10000	1 - 10000	1 - 10000	1 - 10000	1 - 10000	1 - 10000	1 - 10000
Guideway Type		LM	LM	LM	LM	LM	LM	LM
ACCURACY -- As per ISO 230-2								
Positioning accuracy	mm	0.01	0.01	0.01	0.01	0.01	0.01	0.01
Repeatability	mm	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003	± 0.003
AUTOMATIC TOOL CHANGER								
Tool change system		Disc Armless	Disc with twin arm	Disc with twin arm	Twin Arm	Twin Arm	Twin Arm	Twin Arm
Tool storage capacity - Std / Opt	Nos.	16/30	24/30	24/30	20/30/40/60	20/30/40/60	40/60	20 / 30
Pull stud - Std. - Opt.		DIN 69872 MAS-403	DIN 69872 MAS-403	DIN 69872 MAS-403	DIN 69872 MAS-403	DIN 69872 MAS-403	DIN 69872 MAS-403	DIN 69872
Max. tool dia with adjacent pockets full	mm	80	80	80	80	80	80	100
Max. tool dia with adjacent pockets empty	mm	125	125	125	155	155	155	200
Max. tool length	mm	250	250	250	250	300	350	400
Max. tool weight	kgf	6	8	8	8	8	8	20
Chip to chip time	sec	6.5 / 7.5	5.5	6.5	6	5	6	8
Tool shank type		BT - 40	BT - 40	BT - 40	BT - 40	BT - 40	BT - 40	BT - 50
CNC System FANUC - Std		0iMate - MD	0iMD	0iMate MD	0iMate MD	0iMD	0iMD	0iMD
INSTALLATION DATA								
Floor space	mm x mm	2200 x 3500	2100 x 4010	1900 x 4200	2800 x 4200	2800 x 4200	3300 x 5500	3500 x 5500
Machine height	mm	3150	3250	3000	2700	3000	3000	3000
Basic machine weight	kgf	5380	6300/7500	7250	7500	7800	8500	8500
Power supply (Basic Machine)	kVA	15	25	21	23	23	40	40

* For CMH 500 XL & CMH 500 / 50 XL

All Specifications are subject to change without prior notice

Standard features

- Tool shank BT-40
- Rigid tapping
- Flood coolant, Coolant gun (HMC-400 XL & CMH series)
- 16 tool ATC for Proton 40 – Disc armless type
- 24 tool ATC for HMC-400 XL – Disc with twin arm type
- 20 / 40 tool Side mounted ATC for CMH series
- Chip flushing for HMC-400 XL & CMH series
- Laser calibration & Ball bar test
- Panel cooler for electrical cabinet

Optional features

- Higher Spindle power & Spindle speed
- HSK A63 Spindle in lieu of BT-40 for CMH series
- Through spindle coolant system
- Chip conveyor & Coil conveyor
- Index table - 1° x 360 Positions
- Automatic pallet changer – Rotary type
- Linear scale
- Ball screw cooling
- Spindle cooling
- TPM Friendly machine
- Tooled up solutions & Automation



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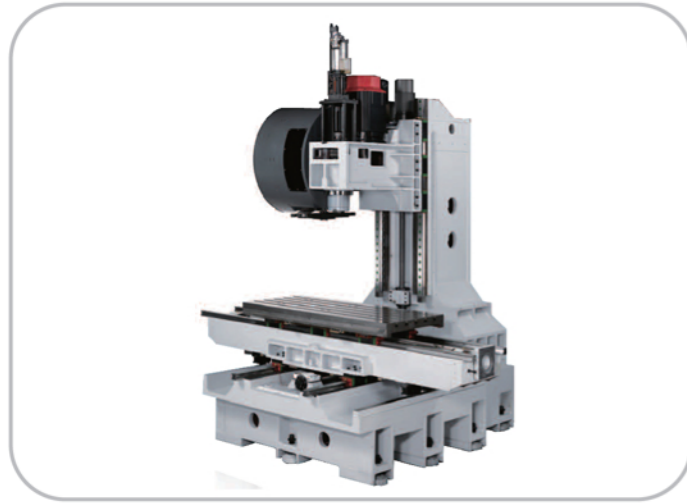


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MACHINE One by Maple



INTRODUCING
THE MAPLE M-ONE SERIES

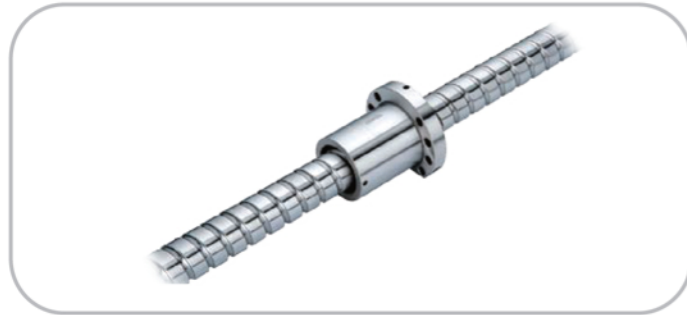


- Machine is designed with wide-stance casting.
- The main 5 large components of the machine consists of the stand, base, headstock, work table, and saddle are all create from high quality HT300 cast iron.
- Custom anti-flex chamber design helps both with reducing flex and vibration.

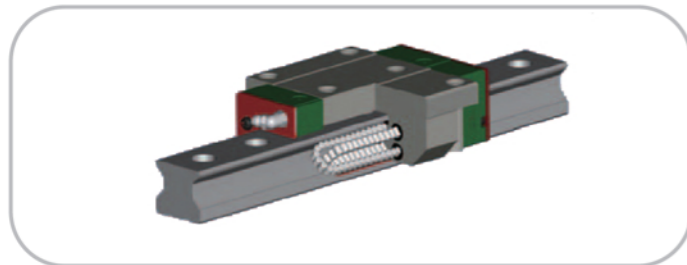


- Unlike many companies in the machining industries. We do not machine our castings once we received it. We let the cast iron sit outside in rain or sun to let the casting take its natural flex changes for 2-3 months.
- All work tables contact areas are heat treated to insure perfect hardness to reduce any damage that might occur during usage.

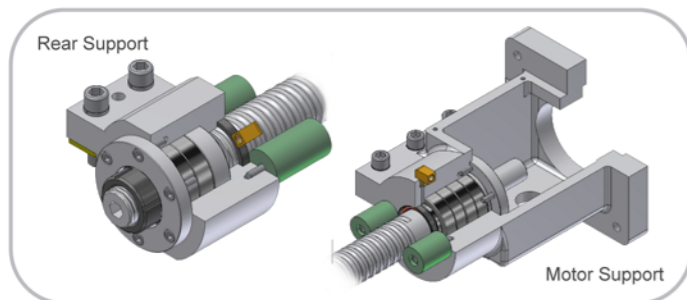
Motion Control



- M-One models uses high accuracy ballscrews constructed of high quality important materials that have been heat treated to prevent wear from usage. Also, the ballscrews are created with inner tubing. This design reduces noise from ballscrew travel by 20-40% compare to other standard ballscrew.



- All M-One series models uses roller type linear guide ways. High strength rollers have a great weight load capacity. Furthermore, the roller type guide ways are designed to have unbelievable tilt resistance. With P-grade roller type linear guide ways, perfect flatness is guarantee from every part machined.



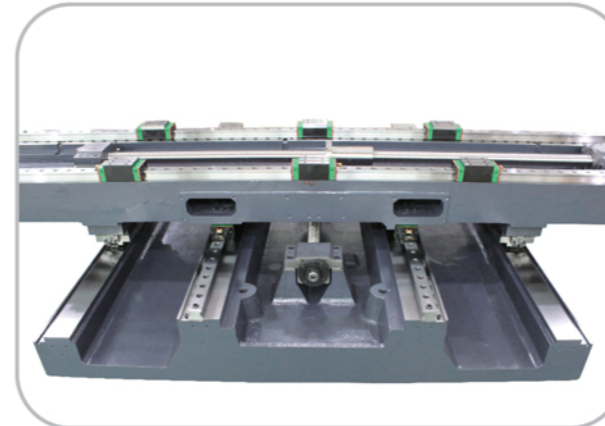
- Rigidity is the key to cutting faster that is why we use four high accuracy heavy duty bearing in the motor mount and three high accuracy heavy duty bearing in the rear support. By doing so we increased the rigidity of the ballscrew support by 50% compare to standard machines in the industry.

Z-Axis Head Stock Strength



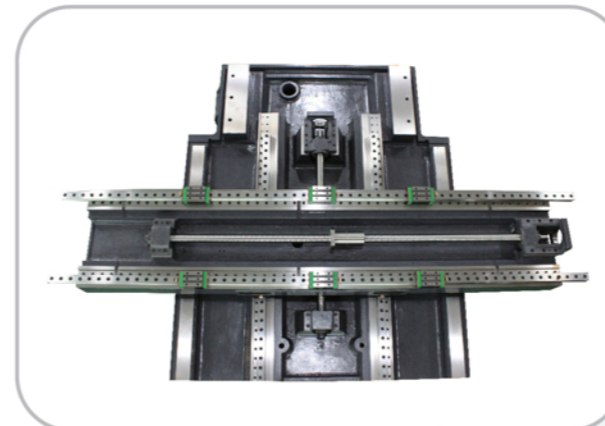
- The headstock being the part that takes the most stress, the headstock is equipped with roller type linear guide ways giving the headstock incredible strength in resisting flex and harmful vibration.
- With 6 heavy duty roller blocks installed on the Z-axis headstock, consistent contact is made between head stock and stand giving the M-One incomparable rigidity.
- Unbelievable structure design gives the headstock light and strong at the same time. This gives the M-One the ability to move faster and at the same time consuming least power, interns make the machine more eco-friendly then most machines in the industry.

X-Axis Saddle Strength



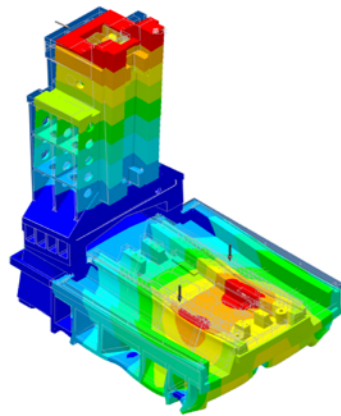
- The X-axis saddle is designed with 4 point support. This means that there is support at every 1/4 of the distance.
- Also with roller type guides the saddle and work table can withstand heavy forces from heavy cutting. The X-axis saddle is support with 6 heavy duty roller blocks that can withstand over 2 tons and is resistant to tilt due to unbalance work pieces.
- Heavy tension roller type guide ways were selected to reduce vibration to work piece giving higher precision cuts and finer finishes.

Y-Axis Saddle Strength



- With a base support wide as the saddle. The base gives complete and total balance to the whole machine without any problem.
- Incredible 4 roller blocks and 4 roller supports. Regardless of where the work piece lays. The work piece will still be balance to perfection.

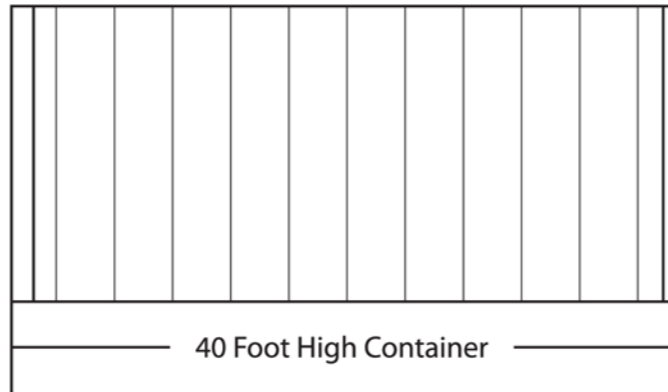
Analysis Features



■ Knowing Your Creation

All M-One series machines are designed and analyzed by high tech computer software. By doing so we are able to test the rigidity under heavy machining stress and machine flex. We are one of the few manufacture by going the extra mile were able to create a machine that is balanced in weight and strength in every aspect of the machine.

Machine Shipping Features



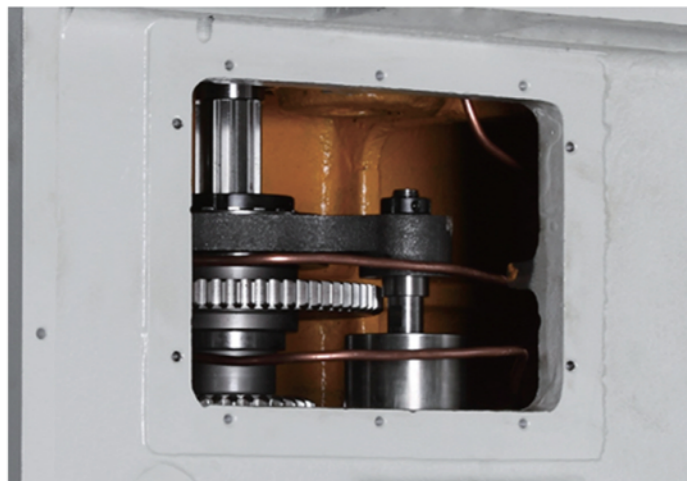
■ 40 Foot Container Fitment

M-One6	4 Units	M-One20	2 Units
M-One8	3 Units	M-One40	2 Units
M-One10	3 Units	M-One60	2 Units
M-One11	3 Units	M-One80	2 Units

■ Non-Dismantelment

The M-One model machining center features one and only non dismantelment shipping. This means that the machine can fit in to containers without being taken apart and have to be put together again; this wastes time and money.

2-Step Gear Box Features



■ 2-Step Gear Box explanation

A spur gear is adopted in the transmission of the spindle in order to increase the efficiency of transmission and to strengthen the rigidity of cutting.

With two step gears installed in head stock. We are able to switch between hi and low gear giving the spindle two different charecters. With hi speed we get the speed like most standard spindle. With low-speed we get 3 times the milling power compared to standard spindles.

Also our 2-step gear box spindle his less backlash compare to the ZF type gear boxes. Without a belt to transmit the movement from spindle motor to gear, we are able to solve the problem of backlash from the belt with direct gear to gear transmission.

Furthermore, reliability of the gear transmission designed used within the M-One 2 step gear box increase the life of both the spindle and the gears. By having sensors installed in 3 staged areas. The gears and spindle are both protected from unexpected crashes.

The cooling-compelled recurring devices are equiped in to the main bearing box, transmitted gear, and gear transmission bearing. Hence, the thermal heat is reduced and the accuracy of the spindle is prolonged.



Spindle Features

■ Built in (High Speed Equipment)

The M-One built in spindle is the most advanced spindle feature in the M-One series spindle line up. With speeds ranging from 15,000-30,000 rpm providing mirror finishing results to many applications.

■ Belt Driven (Standard Equipment)

One configuration for the M-One series is the belt driven spindle. The belt driven spindle is the most the economic and most used type of spindles in the world. M-One series can equipment belt type spindle from 40 to 50 taper, with speeds at 6000-12000 rpm.

■ In-Line (Mid Range Equipment)

The in-line M-One spindle design is an innovative 12,000 to 15,000-rpm, inline, direct-drive spindle that is coupled directly to the motor. This provides super-smooth operation for excellent surface finishes, and reduces operating heat for greater thermal stability.

■ 2-Step Gear Box (Heavy Duty Equipment)

The M-One geared-head spindle provides increased low-end torque for heavy cutting, while retaining the ability to run up to 6,000, 10,000, 12,000 rpm for high-speed machining. It can be equipped with 40 or 50 taper spindles, providing 3x the standard N.m. of torque compared to standard spindles.

Control board Tech Features

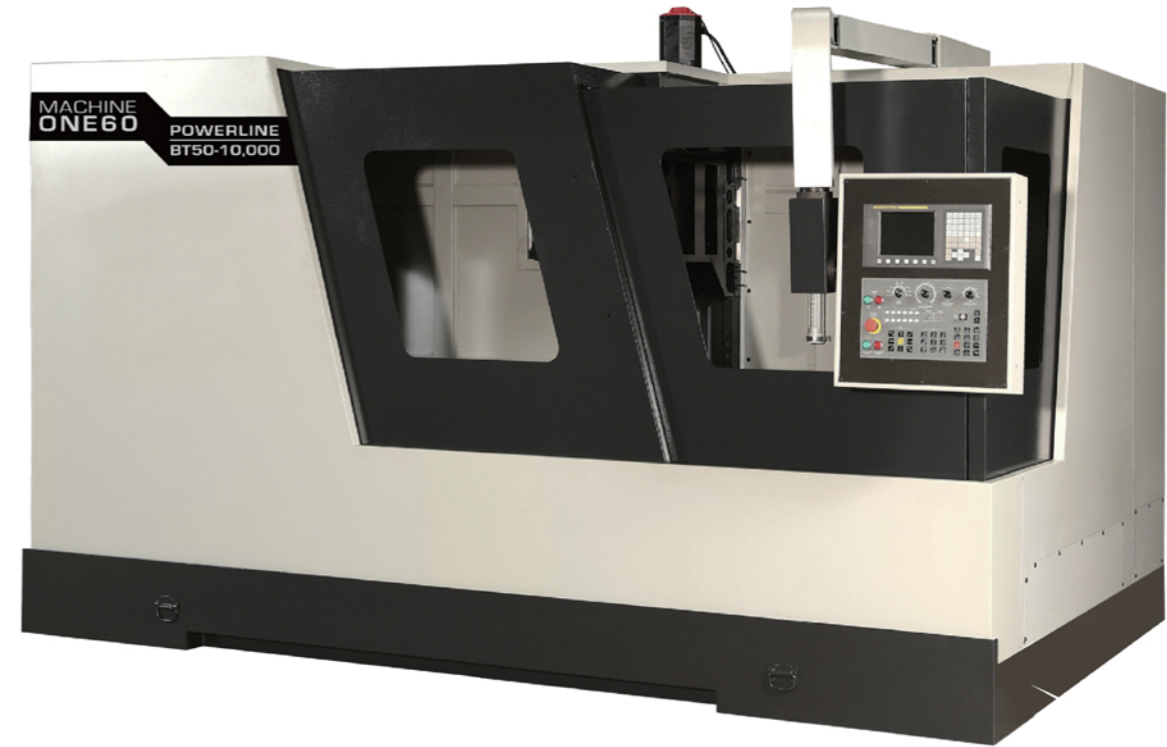


■ 4 way swival control panel

The M-One model machining center futures one andonly 4 way swival control panel. By being able to swival multiple axis, the user can adjust the monitor to the perfect viewing position that the operator desires.

The 4 way swival controller panel is not limited in anyway. This means the swival controller can be equipped with controllers ranging for Fanuc, Mitsubishi, Siemens, and Heindenhein.

Model	M-One 6	M-One 8	M-One 10	M-One 11	M-One 20	M-One 40	M-One 60	M-One 80
Table								
Area fo Table (mm)	800 x 500	950 x 600	1100 x 600	1200 x 600	1300 x 600	1500 x 700	1700 x 700	1900 x 700
Working Area (mm)	650 x 500	850 x 600	1020 x 600	1100 x 600	1200 x 600	1400 x 700	1600 x 700	1800 x 700
T-Slot (mm)	18 x 5 x 80	18 x 5 x 100	18 x 5 x 100	18 x 5 x 100	18 x 5 x 100	20 x 5 x 120	20 x 5 x 120	20 x 5 x 120
Work Table Max Weight (kgs)	500	800	1000	1000	1200	1500	1700	2000
Travel								
X/Y/Z - Axis Travel (mm)	650/500/500	850/600/600	1020/600/600	1100/600/600	1200/600/600	1400/700/620	1600/700/620	1800/700/620
Spindle Nose to Table surface (mm)	110-610	150-750	150-750	150-750	150-750	110-730	110-730	110-730
Spindle								
Spindle Taper	BT/ISO/CAT40	BT/ISO/CAT40	BT/ISO/CAT40	BT/ISO/CAT40	BT/ISO/CAT40	BT/ISO/CAT50	BT/ISO/CAT50	BT/ISO/CAT50
Spindle R.P.M.	10,000	10,000	10,000	10,000	10,000	6,000	6,000	6,000
Transmission Method	Belt Type (In-Line, Built-in, Gear Drive)							
Spindle Motor (kw)	7.5	11	11	11	11	15	15	15
Automatic Tool Changer								
Tool Changer Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type	Arm Type
Tool Loading Capacity	24 Tools	24 Tools	24 Tools	24 Tools	24 Tools	24 Tools	24 Tools	24 Tools
Tool Selection Method	Bi-Directional, Random							
Max. Tool Dia./Length	φ80 / 300 mm				φ110 (127) / 300 mm			
Max. Tool Weight (kgs)	7				15			
Tool Shank Spec.	ISO 40				ISO 50			
Tool Changer Time	T-T:1.8 Sec.; C-C: 4.0 Sec.				T-T:3.5 Sec.; C-C: 7 Sec.			
Three-Axis Motor								
X/Y/Z-Axis Servo Motor (kw)-(Fanuc)	1.8/1.8/1.8BS	2.5/2.5/2.5BS	2.5/2.5/2.5BS	2.5/2.5/2.5BS	2.5/2.5/2.5BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS
X/Y/Z-Axis Servo Motor (kw)-(Mitsubishi)	1.5/1.5/3.0BS	2.0/2.0/3.0BS	2.0/2.0/3.0BS	2.0/2.0/3.0BS	2.0/2.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS	3.0/3.0/3.0BS
3-Axis Cutting Feed Rate (mm/min)	12000	12000	12000	12000	12000	12000	10000	10000
3-Axis Rapid Traverse (M/min)	36/36/36	36/36/24 (36)	36/36/24 (36)	36/36/24 (36)	36/36/24 (36)	24/24/24	24/24/24	24/24/24
Others								
Machine Dimensions (L x W x H) (M)	2.27 x 2.9 x 2.3	2.9 x 2.27 x 2.4	2.27 x 2.9 x 2.4	2.27 x 2.9 x 2.4	2.27 x 3.5 x 2.4	4.36 x 3.2 x 3.3	4.56 x 3.2 x 3.3	4.96 x 3.2 x 3.3
Machine Weight / Gross Weight (kgs)	4000	6500	7500	7900	8500	10800/11300	11500/12500	12500/13500



Standard Accessories:

- Arm Type Automatic Tool Changer (24 Tools)
- Fully Enclosed Guard
- Swiveling Control Box
- Low Energy Work Light
- LED 3 Color Warning Light
- Volumetric Type Automatic Lubricator
- Screw Type Chip Conveyor System
- Coolant and Chip Flushing System
- Auto Power Off
- Rigid Tapping
- Tool Box
- Leveling Screws & Blocks
- Operation Manual
- Mechanical Oil Coolant Separator
- Air Gun

Optional Accessories:

- Maple 2-Step Gear-Box Spindle
- Direct Drive Spindle
- Coolant Through Tool Holder
- Coolant Through Spindle (CTS)
- Transformer
- Chain Type Chip Conveyor
- Linear Scale
- CNC Rotary Table
- Automatic Tool Probe
- Automatic Tool Setter
- Coolant Gun
- Spin Window

Standard Colors

- 1. WHITEST WHITE
- 2. PEARL GREY
- 3. BLACK





SHEARING MACHINE

MECL



FEATURES:

- The second generation of hydraulic shear
- Welded steel plate construction, stress relieved.
- Advanced integrated hydraulic system with excellent reliability
- 3-point support on the rolling guide with for improved shearing quality
- Rapid, accurate, and convenient adjustment of blade clearance with hand wheel
- Rectangular blades with 4 cutting edges for long cutting life.
- Adjustable rake angle to minimize plate deformation
- Cutting beam with inner-inclined structure provides easy fall down for plates and high accuracy
- Shearing in section: Shadow-line cutting
- Counter for the motorized back gauge

Machine Specification

Model	Cutting Thickness (mm)	Cutting Width (mm)	Stroke Number (/min)	Travel of Back gauge (mm)	Shearing Angle (°)	Depth of Throat (mm)	Power of Main motor (kw)	Overall Dimensions L x W x H (mm)
4x2000	4	2000	14	350	0.5-1.5	80	5.5	2600x1350x1840
4x2500	4	2500	14	350	0.5-1.5	80	5.5	3100x1350x1845
6x2500	6	2500	14	600	0.5-1.5	80	7.5	3100x1725x1960
6x3200	6	3200	12	600	0.5-1.5	80	7.5	3650x1750x1980
6x4000	6	4000	10	600	0.5-1.5	80	7.5	4650x1780x2075
6x5000	6	5000	8	600	0.5-1.5	80	7.5	5650x1830x2250
6x6000	6	6000	8	600	0.5-1.5	80	7.5	6650x189-x2380
8x2500	8	2500	14	600	0.5-1.5	80	7.5	3100x1725x1960
8x3200	8	3200	12	600	0.5-1.5	80	7.5	3850x1750x1980
8x4000	8	4000	10	600	0.5-1.5	80	7.5	4650x1850x2075
8x5000	8	5000	7	600	0.5-2.0	80	15	5805x2000x2500
8x6000	8	6000	7	600	0.5-2.0	100	15	6805x2115x2715
10x2500	10	2500	10	600	0.5-2.5	120	15	3195x1800x2210
10x3200	10	3200	8	600	0.5-2.5	120	15	3895x1800x2240
10x4000	10	4000	6	600	0.5-2.5	120	15	4695x1930x2275
10x5000	10	5000	5	600	0.5-2.5	120	15	5905x2115x2715
10x6000	10	6000	5	600	0.5-2.5	120	15	6905x2215x2800
12x2500	12	2500	10	600	0.5-2.5	120	15	3195x1800x2210
12x3200	12	3200	8	600	0.5-2.5	120	15	3895x1800x2240
12x4000	12	4000	6	600	0.5-2.5	120	15	4710x1950x2485
12x5000	12	5000	5	600	0.5-2.5	120	18.5	5905x2115x2800
12x6000	12	6000	4	600	0.5-2.5	120	18.5	7000x2300x3100
16x2500	16	2500	8	600	0.5-2.5	120	15	3215x1880x2340
16x3200	16	3200	7	600	0.5-2.5	120	15	3915x1880x2445
16x4000	16	4000	6	600	0.5-2.5	120	15	4715x1950x2590
16x5000	16	5000	5	600	0.5-3.0	120	22	6000x2300x3000
16x6000	16	6000	4	600	0.5-3.0	120	37	7000x2300x3100
20x2500	20	2500	6	600	0.5-3.0	120	22	3215x1890x2465
20x3200	20	3200	5	600	0.5-3.0	120	30	4120x1890x2780
20x4000	20	4000	4	600	0.5-3.0	120	30	4925x2150x2900
20x5000	20	5000	4	600	0.5-3.0	120	37	6000x2300x3050
20x6000	20	6000	4	600	0.5-3.0	120	37	7000x2300x3150
25x2500	25	2500	5	600	0.5-3.5	120	30	3435x2000x2710
25x3200	25	3200	5	600	0.5-3.5	120	30	4120x2200x3000
25x4000	25	4000	3	600	0.5-3.5	120	30	4950x2200x3150
30x2500	30	2500	4	600	1.0-3.5	120	30	3435x2020x2770
30x3200	30	3200	3	600	1.0-3.5	120	37	4200x2300x3200

Note : No notice if any change of above statistics made

HYDRAULIC PRESS BRAKE

MECL



Features:

- Steel-welded construction, vibration to eliminate stress, with high strength and good rigidity;
- Hydraulic top-drive, steadiness and reliability
- Mechanical stop, steel torsion bar to maintain synchronization, high precision;
- Motorized-adjusting device of back-gauge and ram's stroke, fine adjusting by hand wheel, numerical display
- Travel limit protection.
- Remote pedal control device
- Full machine guarding with safety interlocker.
- Hydraulic compensation to reduce the deflection
- Oil-seal rings are imported from NOK brand, Japan
- Hydraulic valve is from OMEGA brand, USA
- Hydraulic pump is from SUNNY brand, USA
- NC E21 control the control backgauge distance automatically
- With back safety curtain, side safety curtain, Pedal operation switch
- CNC system (imported from DELEM, Netherland) can be available at extra cost

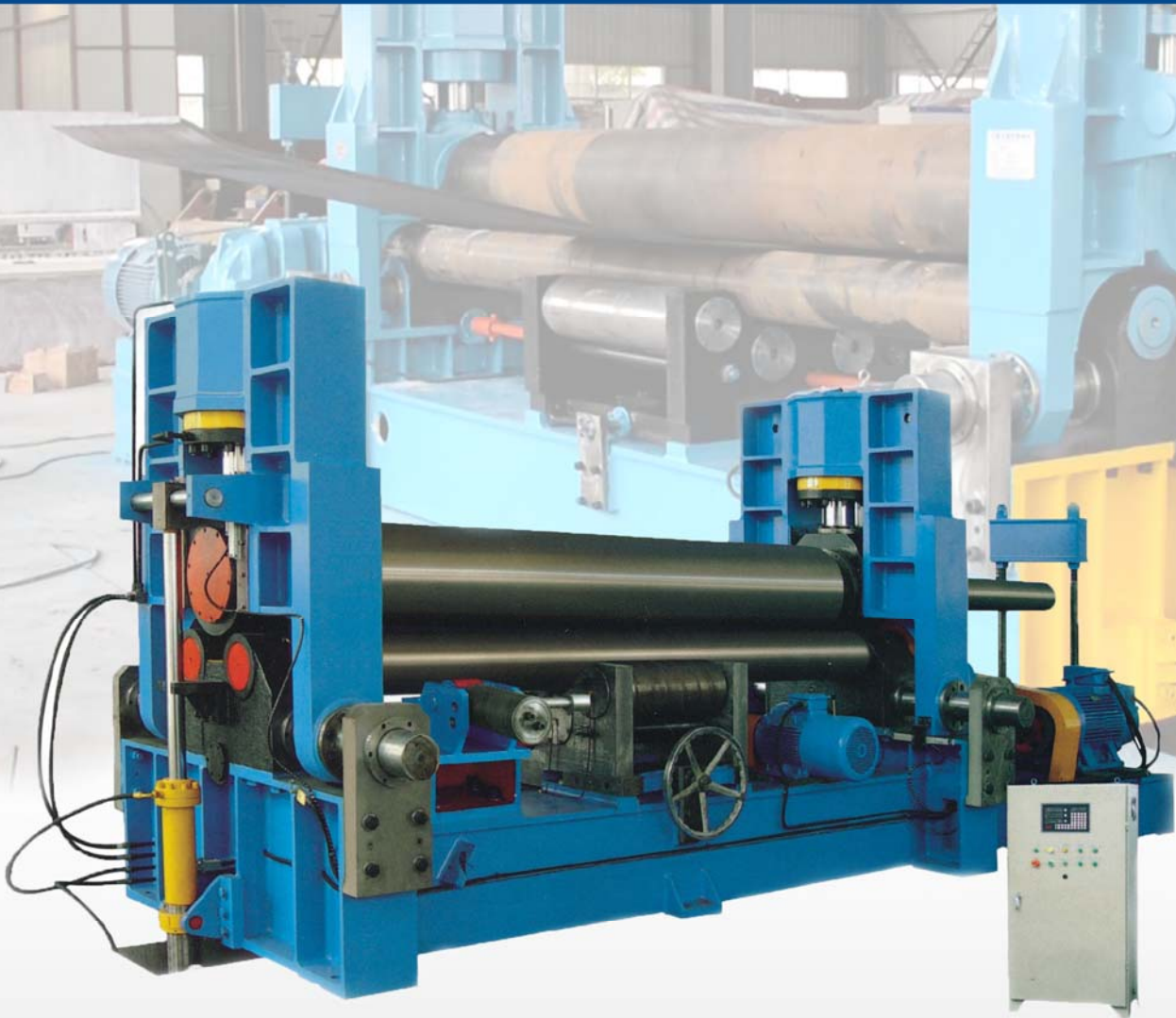


Machine Specification

Model	Normal Pressure (kN)	Length of table	Distance Between Housing (mm)	Throat Depth (mm)	Stroke (mm)	Open Height (mm)	Main Motor (kW)	Dimensions (L x W x H) (mm)	Weight (t)
40/2000	400	2000	1600	200	110	335	4	2545x1510x2050	3
40/2500	400	2500	2000	200	110	335	4	2950x1510x2080	3.5
63/2000	630	2000	1600	250	110	350	5.5	2555x1600x2130	3.8
63/2500	630	2500	2000	250	110	350	5.5	2960x1600x2180	4.2
63/3200	630	3200	2600	250	110	350	5.5	3740x1600x2230	5.2
100/2500	1000	2500	2000	350	150	400	7.5	2980x1650x2330	6.3
100/3200	1000	3200	2600	350	150	400	7.5	3740x1650x2355	7
100/4000	1000	4000	3200	350	150	400	7.5	4550x1650x2450	8.8
100/5000	1000	5000	4000	350	150	400	7.5	5100x1500x2650	11.8
125/2500	1250	2500	2000	350	150	410	7.5	3980x1650x2370	7.5
125/3200	1250	3200	2600	350	150	410	7.5	3750x1650x2450	8.2
125/4000	1250	4000	3200	350	150	410	7.5	4550x1650x2470	9
125/5000	1250	5000	4000	350	150	410	7.5	5100x1500x2795	11.5
125/6000	1250	6000	4500	350	150	410	7.5	6100x1500x2895	14
160/2500	1600	2500	2000	350	150	425	11	2980x1715x2410	8.5
160/3200	1600	3200	2550	350	150	425	11	3750x1715x2450	11
160/4000	1600	4000	3200	350	190	450	11	4550x1715x2730	12
160/5000	1600	5000	4000	350	190	450	11	5100x1570x2900	15.5
160/6000	1600	6000	4500	350	190	450	11	6100x1570x3010	19
200/3200	2000	3200	2600	350	240	460	11	3750x1815x2715	13
200/4000	2000	4000	3200	350	240	460	11	4550x1815x2850	14
200/5000	2000	5000	3800	350	240	460	11	5100x1715x3020	18.5
200/6000	2000	6000	4500	350	240	460	11	6100x1715x3120	21
250/3200	2500	3200	2600	400	240	525	11	3750x2010x2850	15.5
250/4000	2500	4000	3200	400	240	525	11	4550x2010x3010	17
250/5000	2500	5000	3800	400	240	525	11	5100x1890x3190	21.5
250/6000	2500	6000	4500	400	240	525	11	6100x1890x3350	28
300/3200	3000	3200	2600	400	250	545	15	3740x2100x3235	19.5
300/4000	3000	4000	3200	400	250	545	15	4340x2100x3300	22
300/5000	3000	5000	3800	400	250	545	15	5100x2100x3430	26
300/6000	3000	6000	4500	400	250	545	15	6100x2100x3490	29

Note : No notice if any change of above statistics made

3 ROLLER PLATE BENDING MACHINE



Main Features

- PLC OMRON brand, Japan
- Pump is from China famous brand
- Valve is from YUKEN brand, Japan
- Sealings are from NOK brand, Japan
- Main electric components are SIEMENS
- Motors are from SIEMENS
- Top roller material is 42CrMo
- Bottom rollers is 45# forged steel
- With one set (4 pcs) of support rollers
- Top roller move left-right do pre-bending
- With Cone-bending function
- NC control show the top roller position

Machine Specification

Model	Max. thickness(mm)		Width (mm)	Workpiece min dia (mm)	Top Roller (mm)	Bottom Roller (mm)	Distance Of bottom roller (mm)	Motor (KW)		
	Pre-bend	normal						Main	Hydraulic	Movement
W11S-6x2000	6	4	2000	480	195	125	160	3	1.5	0.75
W11S-6x2500	6	4	2500	580	235	135	180	4	2.2	0.75
W11S-8x2000	8	6	2000	550	220	125	180	4	2.2	0.75
W11S-10x2000	10	8	2000	630	250	145	200	5.5	4	1.1
W11S-10x3200	10	8	3200	630	280	180	250	7.5	4	1.1
W11S-10x4000	10	8	4000	800	360	200	330	18.5	7.5	4
W11S-12x2500	12	9	2500	660	265	145	200	5.5	5.5	1.5
W11S-12x4000	12	9	4000	850	380	220	360	22	7.5	5.5
W11S-16x2000	16	12	2000	700	300	150	245	11	7.5	4
W11S-16x2500	16	12	2500	750	330	165	270	11	7.5	4
W11S-16x3200	16	12	3200	800	360	180	330	22	7.5	4
W11S-16x4000	16	12	4000	1200	490	250	400	37	11	7.5
W11S-20x2000	20	16	2000	780	340	180	330	22	7.5	4
W11S-20x2500	20	16	2500	800	360	180	330	22	7.5	4
W11S-20x3200	20	16	3200	850	380	220	360	30	11	5.5
W11S-25x2000	25	20	2000	800	360	220	360	30	11	5.5
W11S-25x2500	25	20	2500	850	380	240	360	30	11	5.5
W11S-25x3200	25	20	3200	1000	410	260	380	37	11	7.5
W11S-25x4000	25	20	4000	1200	490	250	400	37	11	7.5
W11S-30x2500	30	24	2500	1000	410	260	380	37	11	7.5
W11S-30x3200	30	24	3200	1100	440	260	400	37	11	7.5
W11S-35x2000	35	28	2000	1100	440	260	400	37	15	7.5
W11S-35x2500	35	28	2500	1150	460	275	420	37	15	11
W11S-35x3200	35	28	3200	1400	560	290	500	55	22	11
W11S-40x2500	40	32	2500	1250	500	290	460	55	18.5	11
W11S-40x3200	40	32	3200	1400	570	340	500	75	22	11
W11S-40x3200	40	32	3200	1480	590	340	610	55	22	11
W11S-40x5000	40	32	5000	1750	700	360	650	75	30	15
W11S-50x5000	50	40	5000	1980	790	420	780	90	37	15
W11S-60x3200	60	48	3200	1600	650	380	700	75	30	15
W11S-70x3200	70	56	3200	1750	710	420	780	75	37	15
W11S-80x3200	80	64	3200	1900	770	460	880	90	37	18.5

Note : No notice if any change of above statistics made

W11S HYDRAULIC UPPER ROLLER UNIVERSAL PLATE ROLLING AND BENDING MACHINE main Features:

- 1.) Pre-bending is available by means of direct pressure from top-roller that can be adjusted in four directions – upwards, downwards, right, left. Cone-bending function is also available by adjustment of two ends of top roller to make top roller inclinable, so that one end is in low position, another is in high position, with the help of cone-bending device, the machine can carry out cone bending.
- 2.) Of course, the required cone angle can not be reached in one time of operation, it needs some operations through gradual adjustment of the declining angle of top roller. During the operation, workpiece lies on the bottom rollers, the workers do not have to buttress it, so workers are safe and easy to run the machine.
- 3.) The shape of "O", "U", "R" or combined section shape is also available.
- 4.) The machine is completed with economical PLC control function achieve high working efficiency.
- 5.) PLC is from SIEMENS; Digital Screen is from WEINVIEW, Taiwan; Hydraulic valve, Sealings are from NOK brand, Japan,

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4 ROLLER PLATE BENDING MACHINE



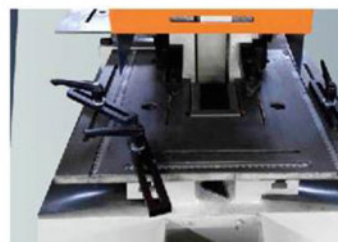
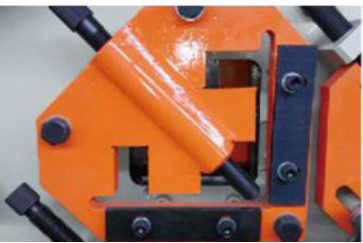
Machine Specification

Model	Max. Thickness (mm)	Pre-Bending (mm)	Working Length (mm)	Upper (Φmm)	Under (Φmm)	Side (Φmm)	Motor Power (kW)	Dimension (cm)
W12S-4x2000	4	3	2000	160	140	120	2.2	392x86x114
W12S-4x2500	4	3	2500	190	170	150	3	402x125x138
W12S-4x3200	4	3	3200	210	190	170	7.5	466x132x137
W12S-4x4000	4	3	4000	270	250	210	5.5	600x143x152
W12S-6x2000	6	4	2000	190	170	150	3	402x125x138
W12S-6x2500	6	4	2500	210	190	170	7.5	466x132x137
W12S-6x3200	6	4	3200	230	210	190	7.5	516x132x137
W12S-6x4000	6	4	4000	300	270	210	5.5	592x149x173
W12S-8x2000	8	6	2000	210	190	170	7.5	416x132x137
W12S-8x2500	8	6	2500	230	210	190	7.5	466x132x137
W12S-8x3200	8	6	3200	270	250	210	11	551x143x152
W12S-8x4000	8	6	4000	330	300	240	7.5	597x161x184
W12S-10x2000	10	8	2000	230	210	180	7.5	416x132x137
W12S-10x2500	10	8	2500	270	250	210	11	500x143x152
W12S-10x3200	10	8	3200	300	270	210	11	542x146x173
W12S-10x4000	10	8	4000	360	330	250	11	605x168x190
W12S-12x2000	12	9	2000	270	250	210	11	451x143x152
W12S-12x2500	12	9	2500	300	270	210	11	492x146x173
W12S-12x3200	12	9	3200	330	300	240	11	547x161x184
W12S-12x4000	12	9	4000	390	360	300	18	605x198x210
W12S-16x2000	16	12	2000	300	270	210	11	442x146x173
W12S-16x2500	16	12	2500	330	300	240	11	497x161x184
W12S-16x3200	16	12	3200	360	330	250	15	554x168x190
W12S-16x4000	16	12	4000	430	390	330	15	628x218x220
W12S-20x2000	20	16	2000	330	300	240	11	440x200x212
W12S-20x2500	20	16	2500	360	330	250	15	504x168x190
W12S-20x3200	20	16	3200	390	360	300	18.5	552x198x210
W12S-20x4000	20	16	4000	460	420	360	18.5	664x258x230
W12S-25x2000	25	20	2000	360	330	250	15	447x161x184
W12S-25x2500	25	20	2500	390	360	300	18.5	502x198x210
W12S-25x3200	25	20	3200	430	390	330	22	578x218x220
W12S-25x4000	25	20	4000	510	460	390	22	664x296x300
W12S-30x2000	30	25	2000	390	360	300	22	479x218x220
W12S-30x2500	30	25	2500	430	390	330	22	528x218x220
W12S-30x3200	30	25	3200	460	420	360	30	614x258x230
W12S-30x4000	30	25	4000	540	510	440	30	700x305x300

Note : No notice if any change of above statistics made

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IRON WORKER MACHINE





油电复合高速机
DKM-5H Series
Hybrid hi-speed injection molding machine

伺服节能注塑机
DKM-SV Series
Servo energy saving injection molding machine

浙江德库玛机械有限公司
ZHEJIANG DAKUMAR MACHINERY CO.,LTD.

追求卓越品质，创造世界品牌 German quality made in Huangyan, China

德库玛以先进的注塑机技术，配合高精的模具设计制造理念，
采用高精的注塑工艺，为客户提供全方位的服务方案。

COMPANY

浙江德库玛机械有限公司隶属于西诺控股集团旗下，专注于注塑机的研发、制造、销售与服务，提供给客户整套的产品解决方案。公司拥有资深的设计团队，通过有限元和运动学仿真技术，对整机的结构和运行控制进行分析与优化，确保机器的运行可靠性与寿命在同行业中处于领先地位；公司引进德国、瑞士、意大利等国家的高精密加工设备和检测设备，确保机器零部件的加工精度；公司拥有经验丰富的售后支持团队，确保及时、高效的提供客户专业的技术服务；通过严格的质量过程控制，确保提供给客户性能可靠的机器。

德库玛注塑机广泛用于食品包装行业、汽车行业、电子行业、家电行业、医疗、日用品等领域，客户遍布欧洲、美洲、东南亚及非洲等地区。

Zhejiang Dakumar Machinery Co., Ltd. is one of the members of Sino Holdings Group, professional in R & D, manufacturing injection molding machine. We provide customers with Turnkey Solution for plastic production line, including machines, molds, hot runner system, auxiliaries etc. By dynamic simulation, we keep optimizing machine structure and control system to improve machine reliability and life-time; We import high precise tooling equipment and inspection facility from Germany, Switzerland and Italy for machine parts' processing accuracy control; We have experienced after-sales team, providing timely and efficient service for customers; We have strict quality control to ensure the machines' stability.

Dakumar injection molding machine is widely applied to thinwall packaging, medical parts, industrial containers and pallets, automotive parts, electronics, houseware, we have customers all over Europe, America, Asia and Africa etc.

5H - Series machine
油电复合高速机

SV - Series machine
伺服节能注塑机





WHAT'S 5H

DKM provides a new conception of injection molding

高速度 High speed
高效率 High efficiency
高安全 High safety
高精度 High precision
高节能 High energy saving

5H/ 5H/5H ELECTRONIC UNIT

高节能:

- 配备高响应伺服系统, 根据动作需要提供相应压力的输出流量, 无溢流损耗, 节能效率30-70%
- 可选配伺服马达驱动, 使得伺服马达, 可节省能源并降低位置重复精度

High Energy Saving:

- With high-response servo system, machine runs according to actual need, no overflow or waste, it can save power by 30%-70%.
- With servo-motoric drive, compared with hydraulic motor, it can save energy consumption and at the same time control the position more precisely.



4H/ 4H/4H ELECTRONICALLY CONTROLLED UNIT

高精度:

- 采用欧洲先进的电脑控制器, 位置及温度控制精准
- 选装精密伺服阀全部环射系统, 确保射出稳定
- 注塑阀板直接安装在执行元件上, 控制更精准, 反应更快速
- 双射器平衡注缸确保射台受力均匀, 高压射出更不偏斜, 射出更稳定
- 射台采用弹性前板设计, 确保料管不下塌, 射出更精准
- 高刚性机械机构保证刚性, 四连杆支点靠近模板中心, 实现驱动力均匀分布
- L/D=22-24, 双螺紋喷嘴进行确保塑料温度均匀

High Injection Precision:

- Configure European advanced controller, to precisely control the temperature and location.
- In hydraulic unit, configure precision servo-valve, it runs with high precision, and response faster.
- In injection unit, configure linear slider, it avoids the barrel drop down, make sure the injection is stable and precise.
- Screw L/D=22-24, and screw with double thread mixing, to ensure full material mixture.



3H/ 3H/3H HYDRAULIC UNIT

高安全:

- 机械、液压、电磨三重保护
- 安全模块独立控制装置, 射出、加料、废渣不会产生误动作而危及人体伤害
- 隐藏式机械安全机构, 安全性高
- 全封闭式板金

High Safety:

- Machine with mechanical, hydraulic, electrical triple protection.
- Security module independent control, it assumes safe machine stoping, injection, ejection, nozzle forward to machine to avoid any accident.
- Concealed Mechanical safety structure with high security
- Fully closed machine frame.



2H/ 2H/2H HYDRAULIC UNIT

高效率:

- 全新由手优化设计, 速度与锁模力完美结合, 锁模速度快10%-20%
- 标准边开模边转模, 大幅节省成型时间

High efficiency:

- Toggle with optimized design, perfect combination of speed and force, it is 10%-20% faster.
- Standard machine can realize mold opening and ejector at the same time, it saves cycle time.



TV/ 3H/3H/3H High-speed response accumulator

高速度:

- 高响应单缸射出系统, 适合高速射出, 无射出不同步问题, 精度高, 射出加、减速度快
- 溢流背压式射出, 最大射出速度范围: 300-450mm/sec (视机种而定)
- 射出加减速响应性30ms

High Speed:

- Machine adopts high precision single cylinder injection system, especially suitable for high speed injection, with low-leakage and high response speed.
- Machine adopts accumulator to realize high speed injection, the max injection speed can reach 300-450 mm/sec (according to different machine model)
- Machine ACC/DEC response time can reach 30ms.

5H-高速薄壁专用机

5H hybrid hi-speed injection molding machine

采用蓄能器辅助注射来实现高速注塑，此外通过三轴联动功能来实现换料、开模、开模同时进行，大幅缩短成型周期。

主要应用于机械手模内贴成型、薄壁容器成型。

例如：冰激凌杯盒、酸奶盒、一次性饭盒等；壁厚为0.40mm的四腔冰激凌盒，成型周期为2.8秒。

The machine is designed with accumulator to realize high speed injection. Besides, it has the function of 3 axis linkage to realize material changing, mould opening and ejection at the same time.

Main Application: IMI molding with robot system, thinwall container molding, such as ice cream box, yogurt box, disposable food container etc, cycle time can reach 2.8s for 4 cavities ice cream box mould with 0.4mm thickness.



5H-高精密产品专用机

5H hybrid hi-precision injection molding machine

机器采用KEBA控制系统和Rexroth伺服阀，不仅能够精确控制每一滴的注射量以及位置，同时还可以降低成型误差，从而获得高精密成型。主要应用于电子零部件，例如：手机壳、塑料机械齿轮、LED照明灯等。

Machine is applied with KEBA control system and Rexroth valve, it can control each shot precisely on weight and position. Molding tolerance is very small to get high precision molding.

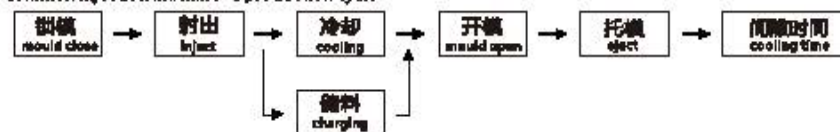
Main Application: Electronic parts, such as mobile phone cover, plastic mechanical gear, LED light etc...



注塑工艺流程对比图

Injection molding flow comparison

普通机一个成型周期的时间流程
common injection machine's production cycle



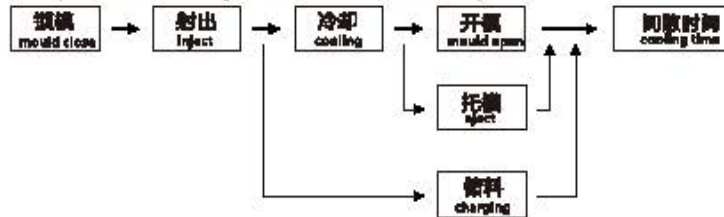
两轴联动一个成型周期的时间流程

two-parallel lines action injection machine's production cycle



三轴联动一个成型周期的时间流程

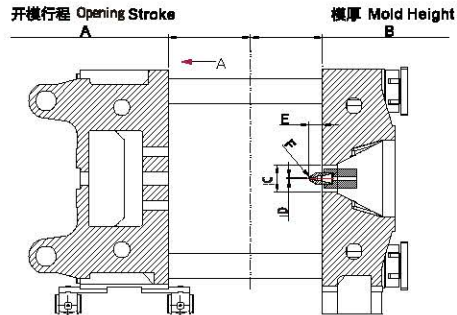
three-parallel lines action injection machine's production cycle



高速机技术参数表

MACHINE SPECIFICATION

高速专用机规格表			DKM-200H/200HH			DKM-300H/300HH			DKM-400H/400HH			DKM-600H/600HH			DKM-800H/800HH				DKM-1100H/1100HH				DKM-1300H/1300HH			
			A	B	C	A	B	C	A	B	C	A	B	C	A	B	C	D	A	B	C	D	A	B	C	D
射出单元 Injection Unit																										
螺杆直径	Screw Diameter	mm	Φ42	Φ48	Φ54	Φ50	Φ55	Φ62	Φ60	Φ65	Φ72	Φ60	Φ65	Φ72	Φ90	Φ95	Φ100	Φ110	Φ100	Φ100	Φ120	Φ130	Φ110	Φ120	Φ130	Φ140
螺杆长径比	Screw L/D Ratio	(L/D)	24	24	24	24	24	24	24	24	24	24	24	24	24.8	23.6	22.4	20.4	26	24	22	20	26	24	22	20
理论射出容积	Theoretical Shot Volume	Cm3	332	434	549	559	677	860	890	1045	1282	890	1045	1282	2988	3330	3690	4464	4710	5699	6782	7960	6275	7470	8765	10170
射出量	Weight	gram	297	387	490	499	604	768	794	932	1144	794	932	1144	2690	2997	3321	4018	4239	5129	6104	7164	5648	6723	7889	9153
射胶压力	Injection Pressure	kg/cm2	2531	1938	1531	2654	2194	1726	2347	2000	1630	2347	2000	1630	2070	1850	1670	1370	2110	1740	1460	1250	2010	1690	1440	1240
射出速度	Injection Speed	mm/s	400			350			300			300			250				200				200			
射出率	Injection Rat	cm3/sec	554	723	916	687	831	1056	848	995	1221	848	995	1221	1590	1771	1963	2375	1570	1900	2261	2653	1900	2261	2653	3077
螺杆转速	Screw Rotate Speed	rpm	0-200			0-200			0-200			0-200			0-200				0-190				0-140			
夹模单元 Clamping Unit																										
合模力	Clamp Force	kN	2000			3000			4000			6000			8000				11000				13000			
移模行程	Toggle Stroke	mm	490			560			700			900			1040				1280				1410			
拉杆内距	Space Between Tie Bars	mm	560*560			660*660			760*760			900*900			1040*1040				1200*1200				1370*1320			
最大模厚	Max.Mold Height	mm	600			640			760			1000			1040				1250				1400			
最小模厚	Min.Mold Height	mm	200			220			250			300			420				500				500			
最小模具尺寸	Min.Mould size	mm	365*365			430*430			495*495			590*590			625*625				740*740				820*820			
顶出行程	Ejector Stroke	mm	140			165			195			240			300				350				350			
顶出力	Ejector Force	kN	61			79			125			210			210				246				246			
顶出杆数	Ejector Number	n	5			13			13			21			21				21				25			
最大油泵压力 Max.Pump Pressure			Mpa																							
最大油泵压力			16			16			16			16			16				16				16			
电机功率 Pump Motor Power			kw																							
电机功率			70/50			93/70			120/90			140/110			200				270				300			
电热功率 Heater Power			kw																							
电热功率			16			24			30			55.3			55.3				72				86			
外形尺寸 Machine Dimension			m																							
外形尺寸			6.1*1.75*2.4			6.9*1.87*2.45			8.1*2.2*2.6			10.5*2.3*2.6			10.8*2.21*2.8				11.4*2.3*3.8				13.4*2.5*3.8			
机器重量 Machine Weight			ton																							
机器重量			8			12			18			30			37				55				66			
油箱容积 Oil Tank Capacity			Litre																							
油箱容积			420			520			720			1000			2600				4000				4600			

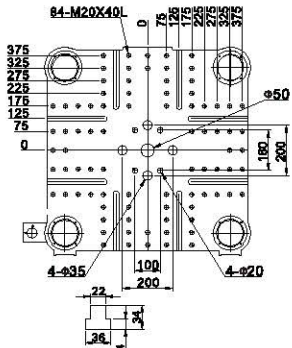


Model	A	B	C	D	E	F
DKM-200H	490	200-800	100	Φ3.5	50	SR10
DKM-300H	560	220-840	100	Φ3.5	50	SR10
DKM-400H	700	250-780	150	Φ5	75	SR15
DKM-600H	900	300-1000	150	Φ5	75	SR15
DKM-800H	1040	420-1040	252	Φ5	50	SR15
DKM-1100H	1280	500-1250	320	Φ6	50	SR20
DKM-1300H	1450	500-1400	320	Φ6	50	SR20

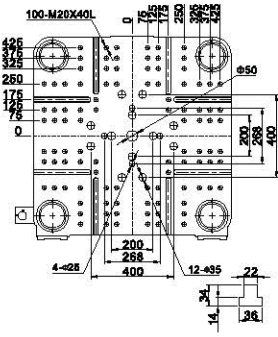
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Plate Dimension

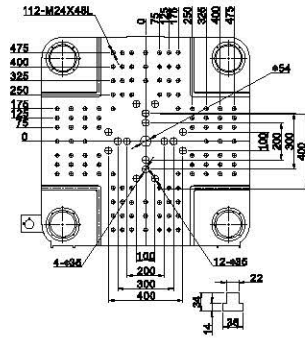
整机外廓尺寸 MACHINE DIMENSION



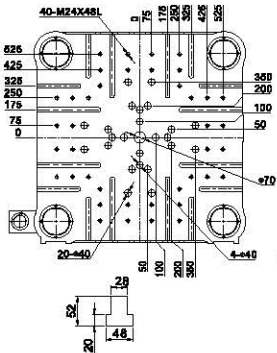
DKM200



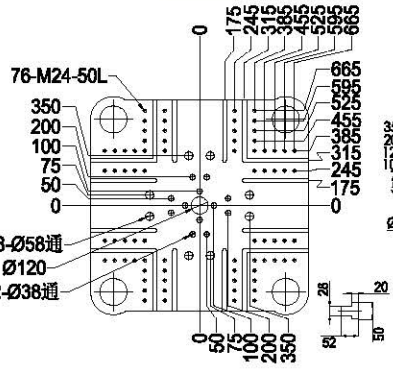
DKM300



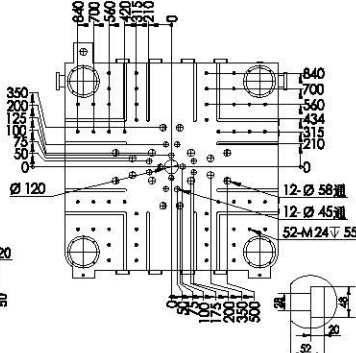
DKM400



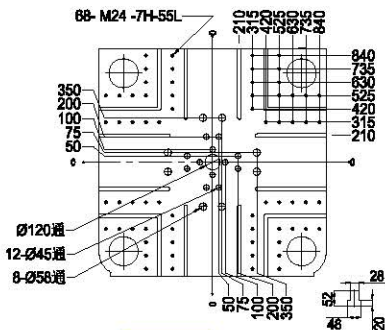
DKM600



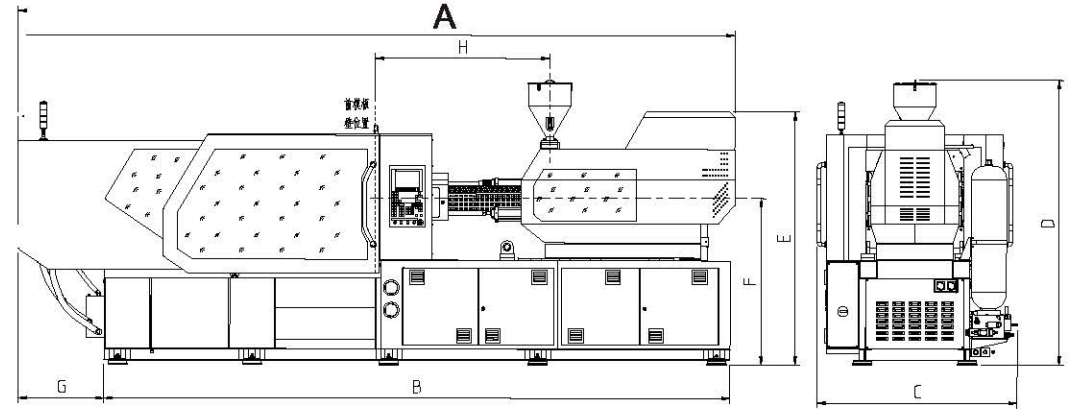
DKM800



DKM1100



DKM1300



Model		A	B	C	D	E	F	G	H
DKM-200H	DKM-200HH	6110	5330	1750	2425	2160	1418	732	1484
DKM-200HP	DKM-200HHP								
DKM-300H	DKM-300HH	6850	6150	1872	2450	2080	1309	700	1804
DKM-300HP	DKM-300HHP								
DKM-400H	DKM-400HH	8100	6950	2200	2570	2318	1378	965	1966
DKM-400HP	DKM-400HHP								
DKM-600H	DKM-600HH	10045	8513	2280	2600	2287	1447	1443	1966
DKM-600HP	DKM-600HHP								
DKM-800H	DKM-800HH	11000	9600	4700	3100	1900	1400	1020	2878
DKM-800HP	DKM-800HHP								

★200吨注塑机通过调整安全门钣金位置可以整机装入20英尺集装箱。

★DKM-200 can be loaded in 20 feet container by adjusting safety door.

-H: 开模与托模两个动作同步

Mold opening and ejecting parallel action

-HH: 开模、托模、储料三个动作同步

Mold opening, ejecting and charing parallel action

-P: 选装MOOG射出伺服阀

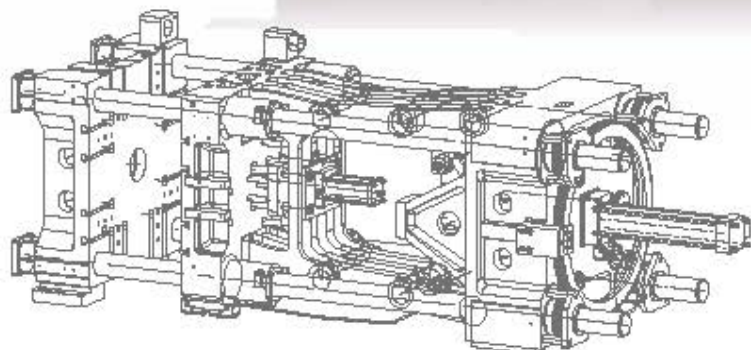
Optional MOOG injecting servo valve

德库玛伺服节能注塑机

Servo Power Save Injection molding machine

We use high-performance servo dynamic control system, as the power source the oil pump, have the characteristic high speed response, energy saving, low noise, high-control precision, and a breakthrough in the perfect connection of the electrical servo and hydraulic drive system.

德库玛伺服节能型注塑机采用伺服节能系统，具有响应快、节能、低噪音、高精度等特点，实现了电液伺服与液压驱动系统的完美结合。



DKM-50~4000SV伺服节能型注塑机 50~4000ton servo energy saving machine

通用型注塑机，适合生产周转箱、托盘类、桌椅、家电类以及汽车保险杠、内饰类等广泛类产品，可根据客户特殊需求，定制特殊类型机器。

Suitable for industrial containers and pallets, chairs and tables, home appliances, automotive parts etc. We can offer customized machine according to customers' special requirements.

DKM-PET/PVC特殊定制类注塑机 PET/PVC customized injection mold machine

特殊型注塑机，针对PET管胚、PVC管接头等特殊行业的客户需求提供定制类型机器。

Suitable for PET preform and PVC fitting injection molding.

DKM-SV Series 伺服节能注塑机

Servo energy saving injection molding machine

日用品 housewares



机器采用科霸控制系统和油研阀，不仅能精确地控制每一模的质量以及位置，同时还可以降低成型误差从而获得高精密成型。

量产生活中的厨房用品和卫生间用品等系列产品。

The Machine is applied with KEBA control system and Yuken valve, which enable it to control each shot precisely on weight and position and reduces errors in molding tolerance to get high precision molding.

Main Application: housewares



汽车配件 automotive parts

高效节能，降低注塑机的运转成本，不仅有高节能性，更能实现高精密度的速度和压力控制；高效率，抑制油温上升，实现油箱的小型转化，延长液压油和液压元件的使用寿命。

Energy saving machine can reduce production cost and improve control precision of speed and pressure control. The service life of machine can be also extended.

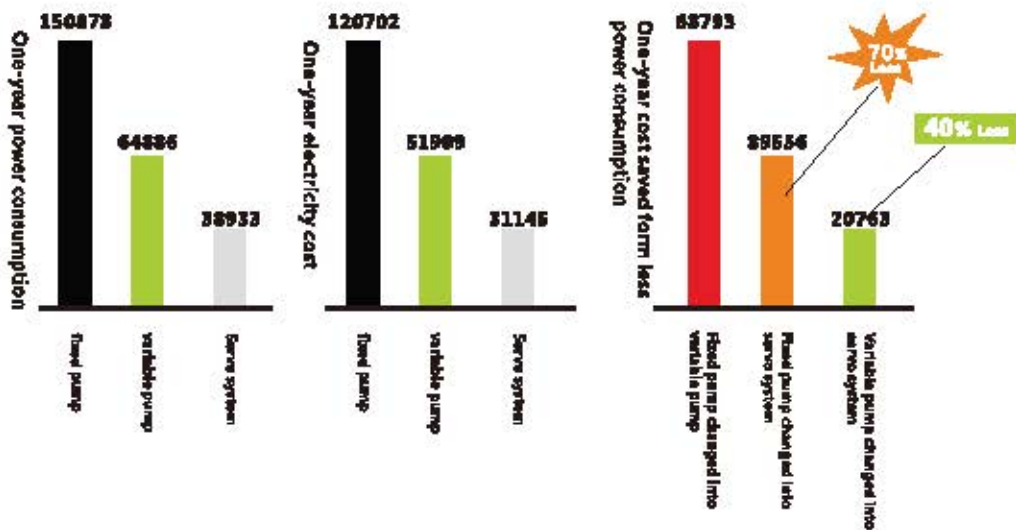


周转箱和托盘 containers and pallets



伺服电液系统与传统流量、压力系统的能耗比较

Energy Consumption comparison between Electro Hydraulic Servo System and Traditional Flow and Pressure System



High efficiency

DIGI Electro-hydraulic servo systems use the slim motor design which the moment of inertia is small, coupled with the most advanced DSP computing device, to realize the oriented vector control of magnetic field. The system has fast response. Some types of the servo motor can reach the maximum speed 2,500 r/min, and the change of the speed from zero to maximum speed only needs 35 ms. Actions, such as the opening and closing of the mould, injection table movement, ejector pin moving forward and backward, obviously speed up, shortening the formation cycle time and improving productivity.

Precision

We take the high-precision rotary transformer which reach 4096 pulses/rev as the feedback element of motor rotate speed (flow) and take the high-precision tension sensor as the feedback element of pressure. And control the pressure and flow with double-closed loop. Realize various control calculation using high-speed DSP which make it real to keep the average pressure inaccuracy within 0.5 bar and the inaccuracy of rotate speed control within 0.1%, and the hysteresis loop is zero. Hence, the repeat accuracy of product weight is very high that meet customer's need to pursue high precision in production.

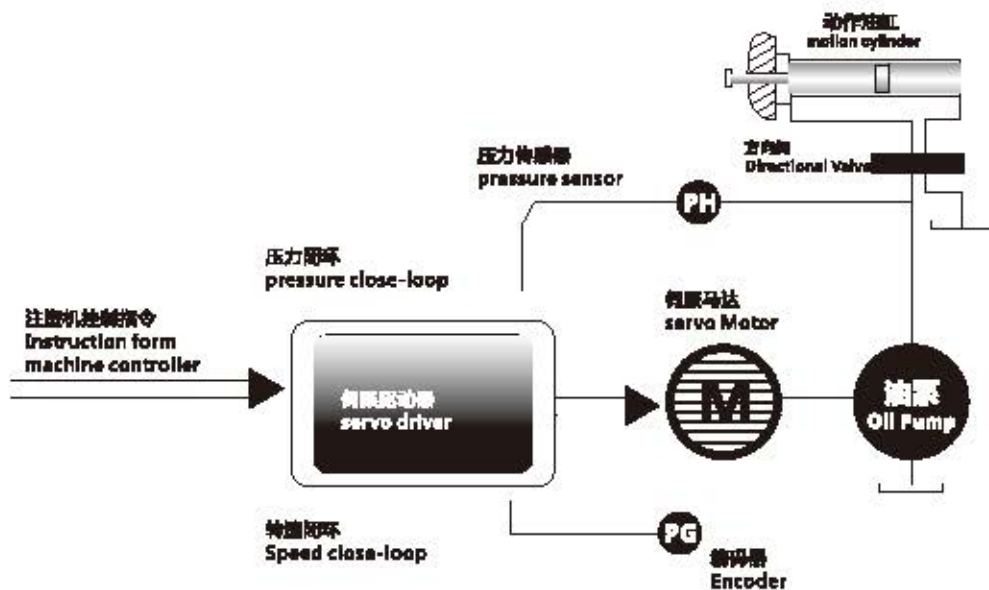
高效

伺服电液系统采用转动惯量较小的细长型电机设计，配合以最新先进的高速DSP运算器件，实现磁定向矢量控制策略，系统具有极快的响应速度，部分伺服电机最高转速达2500转/分，并且从零转速到最高转速的时间仅35毫秒，注塑机的动作如开合模、射台移动、顶针进退等得以明显加快，缩短了注塑机成型周期，提高了生产效率。

精密

采用精度达4096脉冲/转的高精度旋转变压器作为电机转速（流量）反馈元件和高精度压力传感器作为压力反馈元件，并对压力、流量进行双闭环控制，运用高速DSP实现各种控制算法，平均压力偏差可达0.5bar,转速控制精度为0.1%，滞环为零。因此，制品重量更加稳定，满足了生产高精度产品的需要。

伺服系统工作原理 Servo System Principle



PET瓶胚注塑机 PET Injection Machine Specification

规格名称	DIMS116			DIMS118			DIMS120			DIMS122			DIMS124			DIMS126																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
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Injection Unit																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																															
Screw Diameter	mm	38	40	42	44	46	48	50	52	54	56	58	60	62	64	66	68	70	72	74	76	78	80	82	84	86	88	90	92	94	96	98	100	102	104	106	108	110																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																									
L/D		24.8	24.2	23.6	23.0	22.4	21.8	21.2	20.6	20.0	19.4	18.8	18.2	17.6	17.0	16.4	15.8	15.2	14.6	14.0	13.4	12.8	12.2	11.6	11.0	10.4	9.8	9.2	8.6	8.0	7.4	6.8	6.2	5.6	5.0	4.4	3.8	3.2	2.6	2.0	1.4	0.8	0.2																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																																				
Shot Volume	cm ³	188	212	236	260	284	308	332	356	380	404	428	452	476	500	524	548	572	596	620	644	668	692	716	740	764	788	812	836	860	884	908	932	956	980	1004	1028	1052	1076	1100	1124	1148	1172	1196	1220	1244	1268	1292	1316	1340	1364	1388	1412	1436	1460	1484	1508	1532	1556	1580	1604	1628	1652	1676	1700	1724	1748	1772	1796	1820	1844	1868	1892	1916	1940	1964	1988	2012	2036	2060	2084	2108	2132	2156	2180	2204	2228	2252	2276	2300	2324	2348	2372	2396	2420	2444	2468	2492	2516	2540	2564	2588	2612	2636	2660	2684	2708	2732	2756	2780	2804	2828	2852	2876	2900	2924	2948	2972	2996	3020	3044	3068	3092	3116	3140	3164	3188	3212	3236	3260	3284	3308	3332	3356	3380	3404	3428	3452	3476	3500	3524	3548	3572	3596	3620	3644	3668	3692	3716	3740	3764	3788	3812	3836	3860	3884	3908	3932	3956	3980	4004	4028	4052	4076	4100	4124	4148	4172	4196	4220	4244	4268	4292	4316	4340	4364	4388	4412	4436	4460	4484	4508	4532	4556	4580	4604	4628	4652	4676	4700	4724	4748	4772	4796	4820	4844	4868	4892	4916	4940	4964	4988	5012	5036	5060	5084	5108	5132	5156	5180	5204	5228	5252	5276	5300	5324	5348	5372	5396	5420	5444	5468	5492	5516	5540	5564	5588	5612	5636	5660	5684	5708	5732	5756	5780	5804	5828	5852	5876	5900	5924	5948	5972	5996	6020	6044	6068	6092	6116	6140	6164	6188	6212	6236	6260	6284	6308	6332	6356	6380	6404	6428	6452	6476	6500	6524	6548	6572	6596	6620	6644	6668	6692	6716	6740	6764	6788	6812	6836	6860	6884	6908	6932	6956	6980	7004	7028	7052	7076	7100	7124	7148	7172	7196	7220	7244	7268	7292	7316	7340	7364	7388	7412	7436	7460	7484	7508	7532	7556	7580	7604	7628	7652	7676	7700	7724	7748	7772	7796	7820	7844	7868	7892	7916	7940	7964	7988	8012	8036	8060	8084	8108	8132	8156	8180	8204	8228	8252	8276	8300	8324	8348	8372	8396	8420	8444	8468	8492	8516	8540	8564	8588	8612	8636	8660	8684	8708	8732	8756	8780	8804	8828	8852	8876	8900	8924	8948	8972	8996	9020	9044	9068	9092	9116	9140	9164	9188	9212	9236	9260	9284	9308	9332	9356	9380	9404	9428	9452	9476	9500	9524	9548	9572	9596	9620	9644	9668	9692	9716	9740	9764	9788	9812	9836	9860	9884	9908	9932	9956	9980	10004	10028	10052	10076	10100	10124	10148	10172	10196	10220	10244	10268	10292	10316	10340	10364	10388	10412	10436	10460	10484	10508	10532	10556	10580	10604	10628	10652	10676	10700	10724	10748	10772	10796	10820	10844	10868	10892	10916	10940	10964	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	10760	10772	10784	10796	10808	10820	10832	10844	10856	10868	10880	10892	10904	10916	10928	10940	10952	10964	10976	10988	10100	10112	10124	10136	10148	10160	10172	10184	10196	10208	10220	10232	10244	10256	10268	10280	10292	10304	10316	10328	10340	10352	10364	10376	10388	10400	10412	10424	10436	10448	10460	10472	10484	10496	10508	10520	10532	10544	10556	10568	10580	10592	10604	10616	10628	10640	10652	10664	10676	10688	10700	10712	10724	10736	10748	

角式伺服节能注塑机 Angle Injection Machine

角式注塑机合用特特殊模具，能广应用于生产双色或多色塑料制品，与传统注塑机比较，能为客户节省时间和增加利润，单个产品生产成本更低廉；该机也可以作为标准单色注塑机使用；适用于工厂，生产效率高。
Angle type injection molding machine can cooperate with special designed injection molds, so as to manufacture all types of bi-color, multi-color, multi-components plastic parts. Compare to the traditional standard two-color injection molding machine, it can serve both the lower budget and also the production cost for unit plastic components. This model also can comply with widely international brand standard and angle color injection molding machines in various tonnages with special advantages of wide application and high performance.



角式伺服节能注塑机部分制品 Angle Injection Machine Molding samples



角式机技术参数表

Angle Injection Machine Specification

		DKM-110						DKM-180						DKM-250						DKM-450						DKM-550						
		主射台 Master injection			副射台 Assistant injection			主射台 Master injection			副射台 Assistant injection			主射台 Master injection			副射台 Assistant injection			主射台 Master injection			副射台 Assistant injection			主射台 Master injection			副射台 Assistant injection			
注射数量	Injection unit	A	B	C	A	B	A	B	C	A	B	A	B	C	A	B	A	B	C	A	B	A	B	A	B	A	B					
螺杆直径	Screw diameter	mm	34	36	40	20	22	42	45	48	24	26	45	50	55	28	30	70	75	80	32	35	75	80	85	40	45					
螺杆长径比	Screw L/D ratio	L/D	22.4	21.2	19	22	20	22.1	20.6	19.3	22	20.6	22.2	20	18.2	22	20.5	24	22	20	22	20	23.7	22	20.7	22	19.5					
理论注射容量	Shot size(theoretical)	cm ³	168	188	232	30	36	343	395	448	50	58	421	520	629	80	92	1500	1722	1960	161	192	1926	2191	2473	377	477					
注射重量	Injection weight (PS)	g	152	171	210	26.8	32.4	312	358	408	45	53	379	468	566	72	83	1350	1550	1764	145	173	1733	1972	2225	339	429					
注射压力	Injection pressure	Mpa	205	183	148	239	198	203	176	155	224	191	219	178	147	229	199	219	191	168	234	196	191	168	148	228	180					
螺杆转速	Screw speed	rpm	0-220			0-95			0-190			0-100			0-210			0-96			0-150			0-135			0-170			0-140		
合模力量	Clamping unit																															
合模力	Clamp tonnage	kN	1100						1800						2500						4500						5500					
移模行程	Toggle stroke	mm	330						420						490						700						850					
拉杆间距	Space between the bars	mm	375×375						460×460						560×560						760×760						830×830					
最大模厚	Max.mold height	mm	380						500						600						760						810					
最小模厚	Min.mold height	mm	150						180						200						250						330					
顶出行程	Ejector stroke	mm	100						120						140						195						240					
顶出力	Ejector/tonnage	kN	33						39						61						125						150					
顶出杆数	Ejector numbers	n	5						5						5						13						17					
其他	Others																															
系统压力	Max.pump pressure	Mpa	16						16						16						16						16					
电机功率	Pump motor power	kw	11			6			15			9			18			12			36			14			60			23		
电热功率	Heater power	kw	7			3.2			9.3			4.5			16.15			6			23			10			30.4			18		
外形尺寸	Machine dimension	m	4.38×2.3×1.8						4.92×2.5×2.1						6.1×2.8×2.4						8×3.5×2.5						8.2×4×2.6					
机器重量(kW+H)	Machine weight	ton	3.5						5.6						9						19.5						22					
油箱容积	Oil tank capacity	L	200						300						750						1200						1500					

双色注塑机 Double-color Injection Machine Specification

Injection machinery spec.			DKM-D140		DKM-D260		DKM-D430		DKM-D1000				
注射单元 INJECTION UNIT													
螺杆类型 Screw Type			A	B	A	B	A	B	A	B			
螺杆直径	Screw Diameter	mm	26	28	30	32	36	40	45	50	70	50	
注射压力	Injection Pressure	kg/cm ²	2327	2409	2094	2990	1997	1818	1300	2048	2048	1622	2329
理论注射容量	Theoretical Shot Volume	cm ³	71.8	83	95.4	182.6	182	200	233	394	334	1599	589
实际注射容量	Shot Weight Of Injection(PS)	gram	65.8	78.5	87.5	111	148	138	282	491	491	1414	584
		oz	2.3	2.8	3	3.9	5.2	6.5	8.1	17.3	17.3	49.7	19.8
注射速率	Injection Rate	cm ³ /sec	55	61	70	80	101	125	158	205	295	248	180
塑化能力	Plasticizing Capacity(PS)	kg/hr	21.8	25.4	29	27.5	34.8	49	54	68	68	160	88
螺杆转速	Screw Speed	rpm	180		180		180		180		180		180
合模力													
合模力	Clamping Tonnage	metric ton	140		260		450		1000				
合模行程	Clamping Stroke	mm	300		400		600		1100				
模厚	Mould Thickness	mm	120-460		200-300		260-600		795-1300				
拉杆间距	Distance Between Tie Bars(HxV)	mm	710x340		925x420		1160x610		1130x1130				
模架尺寸	Mould Plates(HxV)	mm	940x570		1190x685		1450x930		1700x1700				
顶出行程	Ejector Stroke	mm	70		110		110		150				
转盘直径	Rotary Table Diameter	mm	750		980		1200		1600				
料筒中心间距	Distance Between Barrel Centers	mm	400		500		550		710				
模具最小间距	Min. Distance Between Molds	mm	80		80		80		80				
模具数量	Mold Sets	set	2		2		2		2				
电气设备 ELECTRICAL EQUIPMENT													
注塑马达功率	Pump/Driving Motor	HP(KW)	30(22.38)		40(29.84)		2x90(66.7)		30+50(22.7)				
温度控制箱	Temperature Controller	RANGE/SET	2-(0-400°C) 3x3		2-(0-400°C) 3x4		2-(0-400°C) 3x5		2-(0-400°C) 3x5				
电容量	Heating Capacity	KW	4x2		8x2		13x2		29.35x2				
其他 Others													
外形尺寸	Machine Dimensions(LxWxD)	mm	5300x1350x1924		6500x1750x2180		7500x2000x2100		11200x2360x2590				
油箱容量	Oil Tank Capacity	liter	260		300		1500		1500				
机器重量	Machine Weight	metric ton	5.5		17		20		35				
最大系统压力	Max.System Pressure	kg/cm ²	140		140		140		140				

Turnkey Solution

for African and South American countries to start new plastic molding factories.

德库玛公司为非洲、南美等各个地区的塑胶生产线提供交钥匙工程



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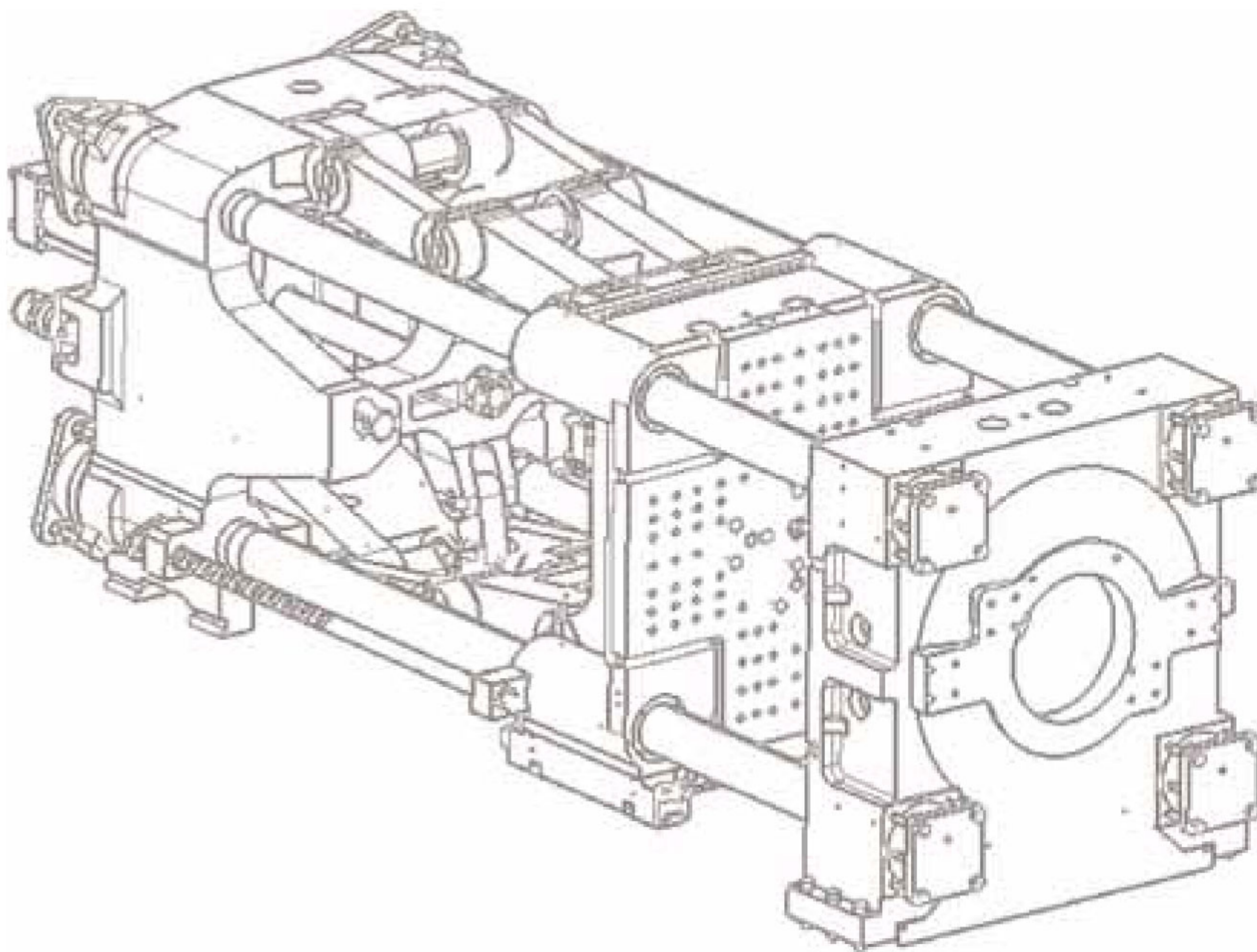
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Fully Electric Injection Molding Machine

Real Series Machine has super high reproducibility and precision of movements Thanks to the high-speed CPU and real-time field bus system.

全电动注塑机

Real系列注塑机得益于高速CPU和先进的实时现场总线，带来了超高的重复精度和高效的产能。



设计理念 Design Principle

Efficient, Reliable

稳定 - Stability

采用欧洲顶级伺服系统，控制器和实时以太网总线等先进技术，注射精度达0.01mm,重量误差小于0.01g,瑞士进口高精度压力传感器与高响应注射单元配合性能优越的压力闭环算法。
全机采用高品质电气与气动元件，强化机械部件，成形质量稳定可靠。

The extreme motion control technology and servo system, make injection resolution up to 0.01mm, weight offset less then 0.01g.
Swiss made Loadcell and High dynamic injection unit with optimization pressure close loop algorithm.
High grade electric and pneumatic parts, Strengthening mechanical structure, make higher production quality.

经济- Economy

智能的伺服系统，低损耗的机械结构，优化的料筒加热结构以及良好的散热设计。
全伺服设计，高效稳定，单位能耗**低至0.37kwh/kg**。
高速精确注射，薄壁产品可相对传统液压机**减少6%以上**的产品重量。

Advanced intelligent servo driver system, low loss mechanical structure, optimization barrel heating and designed machine Heat dissipation structure.
Fully servo motor drive directly, without inertia and without oil as medium, power consumption down to 0.37kwh/kg.
High dynamic and precision injection movements, less product weight over 6% as conventional hydraulic machine.

长寿命- Long life time

精密智能模具保护，降低压模危险。
精准的运动轨迹控制，减小机械磨损与震动。
全机扭力闭环控制，大幅减少模具损耗。
电容式触摸屏，超长使用寿命。

Intelligent mold protection, reduce the risk of mold crush.
Close loop trajectory of axis movements, reduce mechanical wear.
Close loop torque control, protect mold and reduce loss.
Capacitive touch screen, Ultra long life time.

清洁 - Clean

整机无液压油，使用伺服电机驱动。
使用日本进口高精度滚珠丝杆，精密线性导轨，具有长寿命和无油清洁等。
使用业界标准Lube专业润滑系统。

All driven by servo motor, no hydraulic components and oil.
Japan import ball screw and linear guides ensure the long life and clean.
Industry standards LUBE professional lubrication system.

生产力 - Productivity

配备压缩注射，开模中顶出等平行动作等功能，可有效缩短成形周期。
使用自有编程功能快速实现非标准动作流程。
配备高速伺服马达以及优化的系统设计，专为高速注射短周期设计，以达到最大生产能力。
大拉杆间距，长顶针行程，符合国标与欧标的模板孔位设计，大幅减少生产前准备时间。

Machine equipped compress injection, ejector during mold opening and some other parallel movements. may effectively shorten the cycle time.
Free programmable process sequence representation of any production process.
High speed servo motor and optimized system design for extremely short cycle times and maximum productivity duo to the consistent quality of parts.
Large tie-bar space, long ejector range, comply Chinese standard and Europe standard mold plate, save a lot production preparation time.

创新- Innovation

不断尝试国际先进技术，努力研究最新技术，拥有丰富的技术储备，投入大量成本研发。
一直关注最新行业信息和工艺特点，挑战新的成型要求。
大力发展信息化，集成化。

Continue study the latest technology of control and motion, investment in a large number of R&D costs to has a wealth of technical reserves.
Searching for the latest industry information and process features, challenge the new molding requirements.
Continue developing information technology and integration technology.

包装领域 Real Packaging Lighter and Faster

包装业对设备的要求就是高性能，这是一直以来的传统，现在更加入了新的趋势，节能环保。新的华模Real-P系列包装专用注塑机是特别为包装行业设计研发的新一代机型，基于全电动的优势，加强机械结构，并为各个应用方向，对瓶盖，薄壁产品，一次性产品提供不同设计方案。Real-P系列注塑机在保证高性能的同时亦能提供优秀的能耗特性0.37kwh/kg！除了出色的节能效果，特制高强度模板和高达500mm/s的注射速度，高精绝对值编码器更带来了更稳定的产品和更轻的克重。特别在薄壁产品生产中，相对于传统液压机型可节约6%左右的原料消耗。

High-Performance applications have traditionally been the domain of the packaging industry, and the trend in that sector is energy efficiency. The new Valmo Real-P series injection molding machine are the new generation design for packaging industry. The Real-P series machine relies on the all-electric technology benefits, strengthen mechanic structure, optimize solutions by different products like water closure, thin-walled or disposable products. And Real-P series machine cost only 0.37kwh/kg! With uniting the high-performance with maximum energy efficiency. Beside energy efficiency the high rigidity mold plate and 500mm/s injection speed with high precision absolute encoder bring the benefits are stable production and less weight of the parts, 6% less material cost at thin walled production as conventional hydraulic machine.



What's packaging need?

1. Fast cycle time
2. Optimized weight
3. Low energy costs

什么是好的包装系统？

1. 短生产周期
2. 产品轻量化
3. 省电

薄壁注塑

Thin-walled packaging

save energy
省电65% + **轻量6%**
Lighter

一直以来，薄壁注塑都是一个难题。产品永远是越来越大，但壁厚永远是越来越薄，重量永远是越来越轻。同时单个产品的成本控制又十分严格。

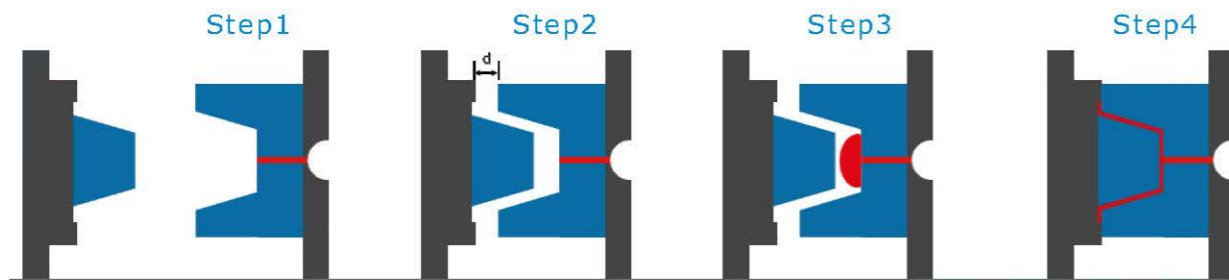
Thin-walled packaging is difficult all the time. However, the demands being placed on it are always increasing: it need thinner, lighter and stable to produce with beautiful shape. And the most important was the parts should cost as little as possible.

但是

BUT

我们有方案来解决这个问题，**压缩注射功能**，组合锁模与注射动作。将融化的塑料注入还没闭合的模腔，这时锁模部件再合模到底将融化的原料均匀的压在模腔内。以往，压缩注塑的优点是缩短周期时间，减小翘曲，提升产品精度等。但更重要的是这些优点将带来更高的产能并有效降低成本。在华模VICO高速控制系统的帮助下将有很大的可能有效减少壁厚，降低产品重量，同时达到极短的周期时间。经济性与效率双赢，帮助提升客户的生产能力达到新的高度。

We have solution, **injection-compression function**, a combination of both injection molding and compression molding. The melt plastic injected into mold while mold still open and subsequently distributed evenly throughout the cavity after clamping unit compressed. The injection-compression function benefits included shorten cycle time, decreased warping in the mold part, higher dimensional accuracy of parts, and more important here, we can bring higher efficiency and reduce costs. The advanced Valmo VICO control system make it possible to reduce wall thickness, reduce parts weight with very fast cycle time. Win both economy and efficiency, reach a new high level productivity of customs.



模具开启位置，准备合模。
Initial Position For Mold Close.

合模至d位置，d指压缩开始位置。
Close Mold Plate to "d" Position.

开始注射，将热熔的原料注入开启的模腔内。
Inject melted plastic into mold not clamped.

锁模到底，将原料挤压成型。
Close mold to the end, molding by squeezing the melted plastic.



350ml
圆/方盒
Container



750ml
圆/方盒
Container



1000ml
圆/方盒
Container



350/750ml
盒盖
Cover

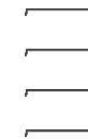
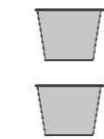


1000ml
盒盖
Cover



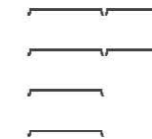
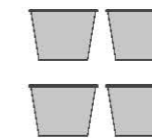
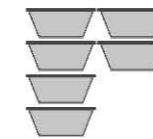
Real P 系列 200
Real P series 200

适用于
Capacity



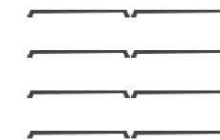
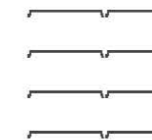
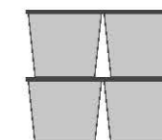
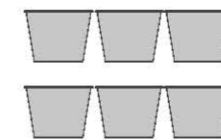
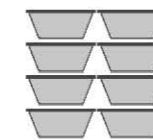
Real P 系列 250
Real P series 250

适用于
Capacity



Real P 系列 350
Real P series 350

适用于
Capacity



*依据机器尺寸，注射能力等得出生产能力，仅供参考。

*According to machine size and injection size, the data for reference only.

Valmo advantages thin-walled packaging

- 1.Full solution for thin-walled packaging
- 2.Over 5 years in thin-walled packaging industry
- 3.High productivity with low price.

华模在薄壁包装领域的优势

- 1.提供一站式全套解决方案
- 2.拥有超过5年薄壁注塑成型经验
- 3.高效益低成本



标准制品与多色注塑

Standard products and multi-color

Flexibility and High precision

卓越的运动控制技术和世界顶级伺服驱动系统, 注射精度可达0.01mm, 注射重量小于0.01g. 十分适合微型高精度产品生产. 注射速度达1000mm/s, 可满足复杂几何形状, 光学镜片以及薄壁电子元件.
高自由度的VICO控制系统可满足极为复杂的非标准工艺流程要求, 大大减少了新产品的开发周期和成本。

Thanks to the excellence of the motion control technology and top grade servo drive system, injection precision reach to 0.01 mm, Injection weight offset less than 0.01g. very suitable for miniaturization of advanced production with high precision and reliability requirements.

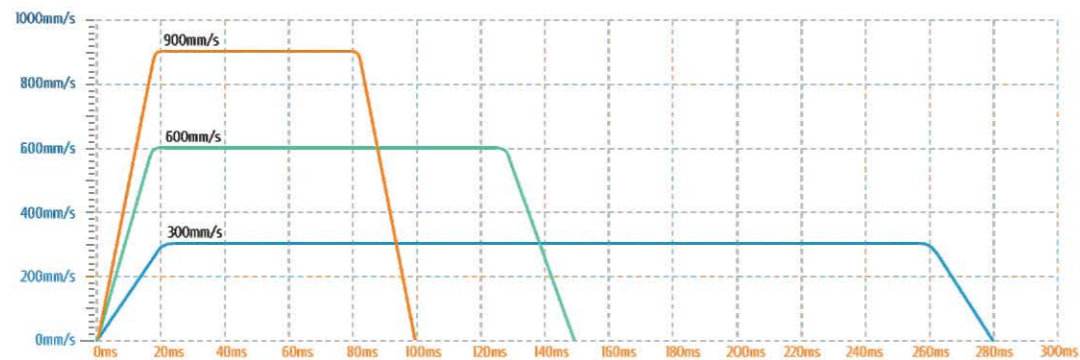
Carrying ultra-high dynamic servo system, Injection speed up to 1000mm/s. Can satisfy the complex geometric shapes, optical len and thin electronic parts.

VICO control system can programming any special process of complex requirements, greatly reduce the development time of new products and cost.

高响应注射单元

High dynamic injection unit

Real系列注塑机注射速度最高可达1000mm/s, 加减速速度达4.5G. 也可定制更高注射速度的注射单元.
Real Series designed for very high dynamic performance injection. The injection speed up to 1000mm/s. acc/deacceleration up to 4.5G. Customizable higher injection speed also available.



双色或多色注射系统

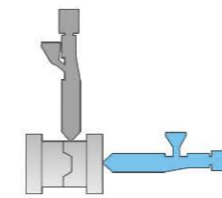
Duo or multi-injection system

可根据现有模具结构或生产条件来选择多种第二射台的规格

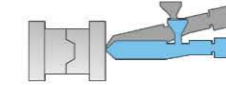
Multi-Injection system can be adapted to existing mold technology and infrastructure.

通过第二射台的不同搭配可实现多色注塑工艺.

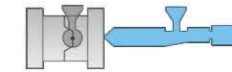
Through mixes use of different type of second unit can be achieved multi-color injection process.



垂直
Vertical position

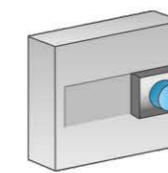


搭载
Piggyback position

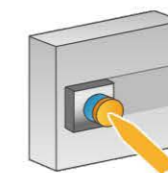


非操作侧
Non-operator side

滑块工艺 Sliding table process

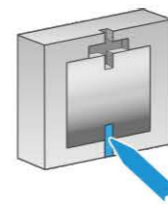


step1
在模腔1位置
注射部件1
将注射部件移动
到模腔2位置
Injection of
component1, and
move core side to
cavity2

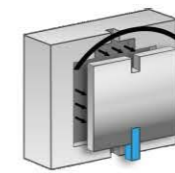


step2
注射部件2
Injection of
component2

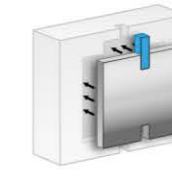
转芯工艺 Index process



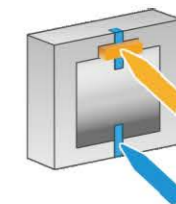
step1
注射部件1
Injection of component1



step2
将模芯顶出, 然后旋转180度
Lifting index platen, turning
180degree



step3
将模芯拉回
Pull-back of index platen

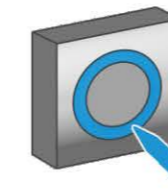


step4
注射部件2, 同时也注射部件1开始下一个周期
Simultaneous injection of the next
substrate

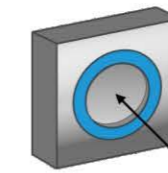
抽芯注射工艺 Cavity separation process

优点在于通常模具是处于闭合状态, 模具体积紧凑, 价格较低.

The mold usually remains closed for this operation, and mold is compact and inexpensive



step1
注射部件1
Injection of component1



step2
将模芯退回
Pull-back the slide



step3
注射部件2
Injection of component2

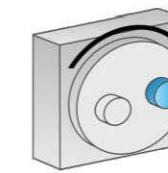
转盘工艺 Turntable process

转盘可多达4个工位, 是应用最为广泛的一种多色注塑工艺

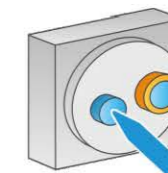
The number of rotation could up to 4, and this is the most widely used multi-component process



step1
注射部件1
Injection of component1



step2
旋转到另外半模
Rotation the mold



step3
注射部件2
Injection of component2
Simultaneous injection
of component1

Real-E series
Performance specifications

Models 机器型号				Real-E 50											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	50											
	Clamping stroke 开模行程		mm	250											
	Max daylight opening 最大模板间距		mm	680											
	Min mold thickness 最小模厚		mm	160											
	Max mold thickness 最大模厚		mm	430											
	Tie-bar space 拉杆间距		mm	370 x 370											
	Ejector force 顶出力		Ton	2											
	Ejector stroke 顶针行程		mm	120											
	Mold platen size 模板尺寸		mm	500 x 500											
				70h				160h				290h			
Injection 注射单元	Screw diameter 螺杆直径		mm	18	20	22	18	25	30	30	35	40			
	Screw L/D ratio 螺杆长径比			22	20	18	22	22	18	22	20	18			
	Screw stroke 螺杆行程		mm	100				130				170			
	Injection unit stroke 注射单元行程		mm	300				320				320			
	Shot weight max.(PS) 最大注射重量		gm	22.5	27	34.2	28.3	55	78.8	104	142	185			
	Shot volume 理论注射容积		cc	25	30	38	32	61	88	116	158	207			
	Injection speed 注射速度		mm/s	300				300				300			
	Injection rate 注射速率		cc/s	75	93	113	76	146	211	211	287	376			
	Injection pressure 注射压力		bar	2850	2300	1900	3000	2700	1900	2500	2000	1600			
	Screw rotation speed 螺杆转速		RPM	350				350				350			
	Plasticizing rate(PS) 塑化率		gm/s	3.8	4	5.8	3.8	9	13	18	24	31			
	Nozzle contact force 喷嘴顶进力		Ton	2				2.5				3			
	Barrel heating capacity 总加热功率		kw	6	6	6	7.5	8	9	9	12	12			
					160h				290h				490h		
Other 其他	Main power 电源功率		kw	11.5	11.8	11.8	11.8	13	15	21	22.5	22.5			
	Machine weight 机器重量		Ton	3.7				4				4.3			
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)		m	4x1.4x1.3				4x1.4x2				4.3x1.4x2			
Models 机器型号				Real-E 80											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	80											
	Clamping stroke 开模行程		mm	290											
	Max daylight opening 最大模板间距		mm	805											
	Min mold thickness 最小模厚		mm	180											
	Max mold thickness 最大模厚		mm	515											
	Tie-bar space 拉杆间距		mm	420 x 420											
	Ejector force 顶出力		Ton	2											
	Ejector stroke 顶针行程		mm	100											
	Mold platen size 模板尺寸		mm	595 x 595											
				160h				290h				490h			
Injection 注射单元	Screw diameter 螺杆直径		mm	18	25	30	30	35	40	35	40	45			
	Screw L/D ratio 螺杆长径比			22	22	18	22	20	18	22	20	20			
	Screw stroke 螺杆行程		mm	130				170				190			
	Injection unit stroke 注射单元行程		mm	320				350				450			
	Shot weight max.(PS) 最大注射重量		gm	28.3	55	78.8	104	142	185	159	207	262			
	Shot volume 理论注射容积		cc	32	61	88	116	158	207	178	232	294			
	Injection speed 注射速度		mm/s	300				300				300			
	Injection rate 注射速率		cc/s	76	146	211	211	287	376	288	376	476			
	Injection pressure 注射压力		bar	3000	2700	1900	2500	2000	1600	2500	2000	1650			
	Screw rotation speed 螺杆转速		RPM	350				350				350			
	Plasticizing rate(PS) 塑化率		gm/s	3.8	9	13	18	24	31	27	40	42.5			
	Nozzle contact force 喷嘴顶进力		Ton	2.5				3				3.5			
	Barrel heating capacity 总加热功率		kw	7.5	8	9	9	12	12	12	18	18			
					160h				290h				490h		
Other 其他	Main power 电源功率		kw	14.5	15.6	16.5	24	25.5	25.5	28	29.5	29.5			
	Machine weight 机器重量		Ton	4.4				4.6				5.2			
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)		m	4.3x1.4x2				4.6x1.4x2				5.1x1.4x2			

- Notes:
 1. Weight per shot is 95% of theoretical value. [GPPS]
 2. Actual plasticization capacity includes may vary, depending on material used and molding conditions.
 3. Main breaker capacity depending on the main power and extra 20A.
 4. Machine dimensions and machine weight are approximate value.
 5. Specifications are subject to change without notice due to performance upgrade.

- 注意：
 1. 注射重量大约为理论值的95%。[GPPS]
 2. 由于原料和模具等不同的情况，实际塑化特性可能略有偏差。
 3. 主断路器容量根据机器额定功率加上额外的20A决定。
 4. 机器尺寸和机器重量是估算值，仅供参考。
 5. 如机器升级恕不另行通知。

*1Mpa = 10.2kgf/cm² ≈ 10kgf/cm² = 10Bar
 1KN = 0.102tf ≈ 0.1 tf = 0.1Ton

Models 机器型号				Real-E 120											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	120											
	Clamping stroke 开模行程		mm	335											
	Max daylight opening 最大模板间距		mm	850											
	Min mold thickness 最小模厚		mm	180											
	Max mold thickness 最大模厚		mm	515											
	Tie-bar space 拉杆间距		mm	470 x 470											
	Ejector force 顶出力		Ton	2.5											
	Ejector stroke 顶针行程		mm	125											
	Mold platen size 模板尺寸		mm	680 x 680											
				160h				290h				490h			
Injection 注射单元	Screw diameter 螺杆直径		mm	18	25	30	30	35	40	35	40	45			
	Screw L/D ratio 螺杆长径比			22	22	18	22	20	18	22	20	20			
	Screw stroke 螺杆行程		mm	130				170				190			
	Injection unit stroke 注射单元行程		mm	320				350				450			
	Shot weight max.(PS) 最大注射重量		gm	28.3	55	78.8	104	142	185	159	207	262			
	Shot volume 理论注射容积		cc	32	61	88	116	158	207	116	158	207			
	Injection speed 注射速度		mm/s	300				300				300			
	Injection rate 注射速率		cc/s	76	146	211	211	287	376	211	287	376			
	Injection pressure 注射压力		bar	3000	2700	1900	2500	2000	1600	2500	2000	1650			
	Screw rotation speed 螺杆转速		RPM	350				350				300			
	Plasticizing rate(PS) 塑化率		gm/s	3.8	9	13	18	24	31	27	40	42.5			
	Nozzle contact force 喷嘴顶进力		Ton	2.5				3				3.5			
	Barrel heating capacity 总加热功率		kw	7.5	8	9	9	12	12	12	18	18			
					160h				290h				490h		
Other 其他	Main power 电源功率		kw	17	18.3	19	26.5	28	28	31	32.5	32.5			
	Machine weight 机器重量		Ton	5				5.2				5.8			
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)		m	4.5x1.5x2.2				4.8x1.5x2.2				5.3x1.5x2.2			
Models 机器型号				Real-E 150											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	150											
	Clamping stroke 开模行程		mm	430											
	Max daylight opening 最大模板间距		mm	1050											
	Min mold thickness 最小模厚		mm	200											
	Max mold thickness 最大模厚		mm	620											
	Tie-bar space 拉杆间距		mm	520 x 520											
	Ejector force 顶出力		Ton	3											
	Ejector stroke 顶针行程		mm	140											
	Mold platen size 模板尺寸		mm	730 x 720											
				290h				490h				630h			
Injection 注射单元	Screw diameter 螺杆直径		mm	30	35	40	35	40	45	40	45	50			
	Screw L/D ratio 螺杆长径比			22	20	18	22	20	20	22	20	18			
	Screw stroke 螺杆行程		mm	170				190				210			
	Injection unit stroke 注射单元行程		mm	350				450				450			
	Shot weight max.(PS) 最大注射重量		gm	104	142	185	159	207	262	230	290	359			
	Shot volume 理论注射容积		cc	116	158	207	178	232	294	257	325	402			
	Injection speed 注射速度		mm/s	300				300				300			
	Injection rate 注射速率		cc/s	211	287	376	287	376	476	376	476	588			
	Injection pressure 注射压力		bar	2500	2000	1600	2500	2000	1650	2450	1950	1600			
	Screw rotation speed 螺杆转速		RPM	350				300				300			
	Plasticizing rate(PS) 塑化率		gm/s	18	24	31	27	40	42.5	40	46	55			
	Nozzle contact force 喷嘴顶进力		Ton	3				3.5				3.5			
	Barrel heating capacity 总加热功率		kw	9	12	12	12	18	18	18	20	24			
					290h				490h				630h		
Other 其他	Main power 电源功率		kw	27	28.6	28.6	31.5	33	33	33	34	34			
	Machine weight 机器重量		Ton	7				7.5				8			
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)		m	5.4x1.6x2.3				5.8x1.6x2.3				5.9x1.6x2.3			

- Notes:
 1. Weight per shot is 95% of theoretical value. [GPPS]
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 3. Main breaker capacity depending on the main power and extra 20A.
 4. Machine dimensions and machine weight are approximate value.
 5. Specifications are subject to change without notice due to performance upgrade.

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 1. 注射重量大约为理论值的95%。[GPPS]
 2. 由于原料和模具等不同的情况，实际塑化特性可能略有偏差。
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 4. 机器尺寸和机器重量是估算值，仅供参考。
 5. 如机器升级恕不另行通知。

*1Mpa = 10.2kgf/cm² ≈ 10kgf/cm² = 10Bar
 1KN = 0.102tf ≈ 0.1 tf = 0.1Ton

Real-E series
Performance specifications

Models 机器型号				Real-E 180											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	180											
	Clamping stroke 开模行程		mm	440											
	Max daylight opening 最大模板间距		mm	1060											
	Min mold thickness 最小模厚		mm	200											
	Max mold thickness 最大模厚		mm	620											
	Tie-bar space 拉杆间距		mm	560 x 560											
	Ejector force 顶出力		Ton	3											
	Ejector stroke 顶针行程		mm	150											
	Mold platen size 模板尺寸		mm	785 x 800											
				290h			490h			630h					
Injection 注射单元	Screw diameter 螺杆直径	mm		30	35	40	35	40	45	40	45	50			
	Screw L/D ratio 螺杆长径比			22	20	18	22	20	20	22	20	18			
	Screw stroke 螺杆行程	mm		170			190			210					
	Injection unit stroke 注射单元行程	mm		350			450			450					
	Shot weight max.(PS) 最大注射重量	gm		104	142	185	159	207	262	230	290	359			
	Shot volume 理论注射容积	cc		116	158	207	178	232	294	257	325	402			
	Injection speed 注射速度	mm/s		300			300			300					
	Injection rate 注射速率	cc/s		211	287	376	287	376	476	376	476	588			
	Injection pressure 注射压力	bar		2500	2000	1600	2500	2000	1650	2450	1950	1600			
	Screw rotation speed 螺杆转速	RPM		350			300			300					
	Plasticizing rate(PS) 塑化率	gm/s		18	24	31	27	40	42.5	40	46	55			
	Nozzle contact force 喷嘴顶出力	Ton		3			3.5			3.5					
	Barrel heating capacity 总加热功率	kw		9	12	12	12	18	18	18	20	24			
					290h			490h			630h				
Other 其他	Main power 电源功率	kw		27	28.6	28.6	31.5	33	33	33	34	34			
	Machine weight 机器重量	Ton		8			8.5			8.8					
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)	m		5.9x1.7x2.4			5.9x1.9x2.4			6x1.9x2.4					
Models 机器型号				Real-E 220											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	220											
	Clamping stroke 开模行程		mm	490											
	Max daylight opening 最大模板间距		mm	1240											
	Min mold thickness 最小模厚		mm	250											
	Max mold thickness 最大模厚		mm	680											
	Tie-bar space 拉杆间距		mm	620 x 620											
	Ejector force 顶出力		Ton	4											
	Ejector stroke 顶针行程		mm	140											
	Mold platen size 模板尺寸		mm	840 x 840											
				490h			630h			1000h					
Injection 注射单元	Screw diameter 螺杆直径	mm		35	40	45	40	45	50	45	50	60			
	Screw L/D ratio 螺杆长径比			22	20	20	22	20	18	22	20	20			
	Screw stroke 螺杆行程	mm		190			210			245					
	Injection unit stroke 注射单元行程	mm		450			450			450					
	Shot weight max.(PS) 最大注射重量	gm		159	207	262	230	290	359	347	430	618			
	Shot volume 理论注射容积	cc		178	232	294	257	325	402	389	480	692			
	Injection speed 注射速度	mm/s		300			300			300					
	Injection rate 注射速率	cc/s		288	376	476	376	476	588	476	588	847			
	Injection pressure 注射压力	bar		2500	2000	1650	2450	1950	1600	2600	2100	1460			
	Screw rotation speed 螺杆转速	RPM		300			300			300					
	Plasticizing rate(PS) 塑化率	gm/s		27	40	42.5	40	46	55	45	46	79			
	Nozzle contact force 喷嘴顶出力	Ton		3.5			3.5			5					
	Barrel heating capacity 总加热功率	kw		12	18	18	18	20	24	24	30	36			
					490h			630h			1000h				
Other 其他	Main power 电源功率	kw		31.5	33	33	33	34	34	51	53	53			
	Machine weight 机器重量	Ton		10			10.5			11.2					
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)	m		6.1x1.8x2.4			6.2x1.8x2.4			7.2x1.8x2.4					

- Notes:
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 1kN = 0.102tf ≈ 0.1 tf = 0.1Ton

Models 机器型号				Real-E 280											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	280											
	Clamping stroke 开模行程		mm	570											
	Max daylight opening 最大模板间距		mm	1370											
	Min mold thickness 最小模厚		mm	250											
	Max mold thickness 最大模厚		mm	730											
	Tie-bar space 拉杆间距		mm	720 x 720											
	Ejector force 顶出力		Ton	5											
	Ejector stroke 顶针行程		mm	150											
	Mold platen size 模板尺寸		mm	970 x 950											
				630h			1000h			1400h					
Injection 注射单元	Screw diameter 螺杆直径	mm		40	45	50	45	50	60	50	60	70			
	Screw L/D ratio 螺杆长径比			22	20	18	22	20	20	22	20	18			
	Screw stroke 螺杆行程	mm		205			245			285					
	Injection unit stroke 注射单元行程	mm		450			450			500					
	Shot weight max.(PS) 最大注射重量	gm		230	290	359	347	430	618	499	719	978			
	Shot volume 理论注射容积	cc		257	325	402	389	480	692	559	805	1096			
	Injection speed 注射速度	mm/s		300			300			300					
	Injection rate 注射速率	cc/s		376	476	588	476	588	847	588	847	1155			
	Injection pressure 注射压力	bar		2450	1950	1600	2600	2100	1460	2450	1950	1450			
	Screw rotation speed 螺杆转速	RPM		300			300			250					
	Plasticizing rate(PS) 塑化率	gm/s		40	46	55	45	56	79	46	71	89			
	Nozzle contact force 喷嘴顶出力	Ton		3.5			5			5					
	Barrel heating capacity 总加热功率	kw		18	20	24	24	30	36	30	36	40			
					630h			1000h			1400h				
Other 其他	Main power 电源功率	kw		37.5	39	39	53	55	55	52	64	64			
	Machine weight 机器重量	Ton		13.3			14.4			16					
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)	m		7.3x2x2.5			7.4x2x2.5			7.7x2x2.5					
Models 机器型号				Real-E 350											
Specification item 机器部件/指标			Unit 单位												
Clamping 合模单元	Clamping Force 锁模力		Ton	350											
	Clamping stroke 开模行程		mm	700											
	Max daylight opening 最大模板间距		mm	1500											
	Min mold thickness 最小模厚		mm	350											
	Max mold thickness 最大模厚		mm	800											
	Tie-bar space 拉杆间距		mm	820 x 820											
	Ejector force 顶出力		Ton	7											
	Ejector stroke 顶针行程		mm	200											
	Mold platen size 模板尺寸		mm	1100 x 1200											
				1000h			1400h								
Injection 注射单元	Screw diameter 螺杆直径	mm		45	50	60	50	60	70						
	Screw L/D ratio 螺杆长径比			22	20	20	22	20	18						
	Screw stroke 螺杆行程	mm		245			285								
	Injection unit stroke 注射单元行程	mm		450			500								
	Shot weight max.(PS) 最大注射重量	gm		347	430	618	499	719	978						
	Shot volume 理论注射容积	cc		389	480	692	559	805	1096						
	Injection speed 注射速度	mm/s		300			300								
	Injection rate 注射速率	cc/s		476	588	847	588	847	1155						
	Injection pressure 注射压力	bar		2600	2100	1460	2450	1950	1450						
	Screw rotation speed 螺杆转速	RPM		350			250								
	Plasticizing rate(PS) 塑化率	gm/s		45	56	79	46	71	89						
	Nozzle contact force 喷嘴顶出力	Ton		5			5								
	Barrel heating capacity 总加热功率	kw		24	30	36	30	36	40						
					1000h			1400h							
Other 其他	Main power 电源功率	kw		64	65.5	65.5	70	75	75						
	Machine weight 机器重量	Ton		18			19.6								
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)	m		7.8x2.2x2.7			7.8x2.2x2.7								

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 1kN = 0.102tf ≈ 0.1 tf = 0.1Ton

Real-E series Performance specifications

Models 机器型号				Real-E 450							
Specification item 机器部件/指标			Unit 单位								
Clamping 合模单元	Clamping Force 锁模力		Ton	450							
	Clamping stroke 开模行程		mm	815							
	Max daylight opening 最大模板间距		mm	1645							
	Min mold thickness 最小模厚		mm	350							
	Max mold thickness 最大模厚		mm	830							
	Tie-bar space 拉杆间距		mm	870 x 870							
	Ejector force 顶出力		Ton	8							
	Ejector stroke 顶出行程		mm	210							
Mold platen size 模板尺寸		mm	1240 x 1240								
				1400h				2050h			
Injection 注射单元	Screw diameter 螺杆直径	mm	50	60	70	60	70	80			
	Screw L/D ratio 螺杆长径比		22	20	18	22	20	18			
	Screw stroke 螺杆行程	mm	285			325					
	Injection unit stroke 注射单元行程	mm	500			500					
	Shot weight max.(PS) 最大注射重量	gm	499	719	978	874	1190	1555			
	Shot volume 理论注射容积	cc	559	805	1096	918	1250	1632			
	Injection speed 注射速度	mm/s	300			300					
	Injection rate 注射速率	cc/s	588	847	1155	847	1155	1506			
	Injection pressure 注射压力	bar	2450	1950	1450	2200	1650	1250			
	Screw rotation speed 螺杆转速	RPM	250			250					
	Plasticizing rate(PS) 塑化率	gm/s	46	71	89	56	76	100			
	Nozzle contact force 喷嘴顶出力	Ton	5			6					
	Barrel heating capacity 总加热功率	kw	30	36	40	44	44	44			
Other 其他	Main power 电源功率	kw	86.5	90.5	90.5	99	99	99			
	Machine weight 机器重量	Ton	24.5			26					
	Machine dimension(LxWxH) 机器尺寸(长x宽x高)	m	8.3x2.4x2.9			8.7x2.4x2.9					

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Specification description 其他注意事项描述

CAUTION

In order to protect the controller and electronic components, please DO NOT operate the machine under these conditions list below:

- 1.Ambient temperature range other than between 0-40°C
- 2.A place with humidity above 85%RH or where condensation occurs due to rapid change in ambient temperature.
- 3.A place filled with fine particles and dust.
- 4.Oil mist floating environment.
- 5.Under direct sunlight.
- 6.High-electric and high-magnetic field environment.
- 7.A place filled with caustic, explosive, or combustible gasses.
- 8.Outdoor or near outdoor environment.

注意

为保护机器电气元件，控制器等，禁止在以下工作环境和情况操作机器。

- 1.环境温度超过 0-40°C 范围，或者环境温度快速变化的情况。
- 2.环境湿度高于 85% RH。
- 3.大量粉尘的环境。
- 4.有油雾的环境。
- 5.阳光直射的环境。
- 6.强电磁场环境。
- 7.环境有易燃易爆气体的情况。
- 8.户外或接近户外的地方。

支持将单色改双色

Single color change to duo color modification

可提供将已出厂的REAL系列单色注塑机改造成双色注塑服务，并提供可按客户需求定制的全套解决方案。

VALMO support modify REAL series single color injection molding machine to duo color, and provide complete solutions that can be tailored to customer needs.

支持将小注射量机型改装为大注射量机型

Increase injection volume modification

可提供将已出厂的REAL系列注塑机更换注射单元的，可将小注射量机型升级成大注射量机型。

VALMO support modify REAL series machine injection unit size, increase injection volume.

支持将普通射速改装为高射速机型

Increase injection speed modification

可提供将已出厂的普通射速的REAL系列注塑机，改装为高速高动态机型。

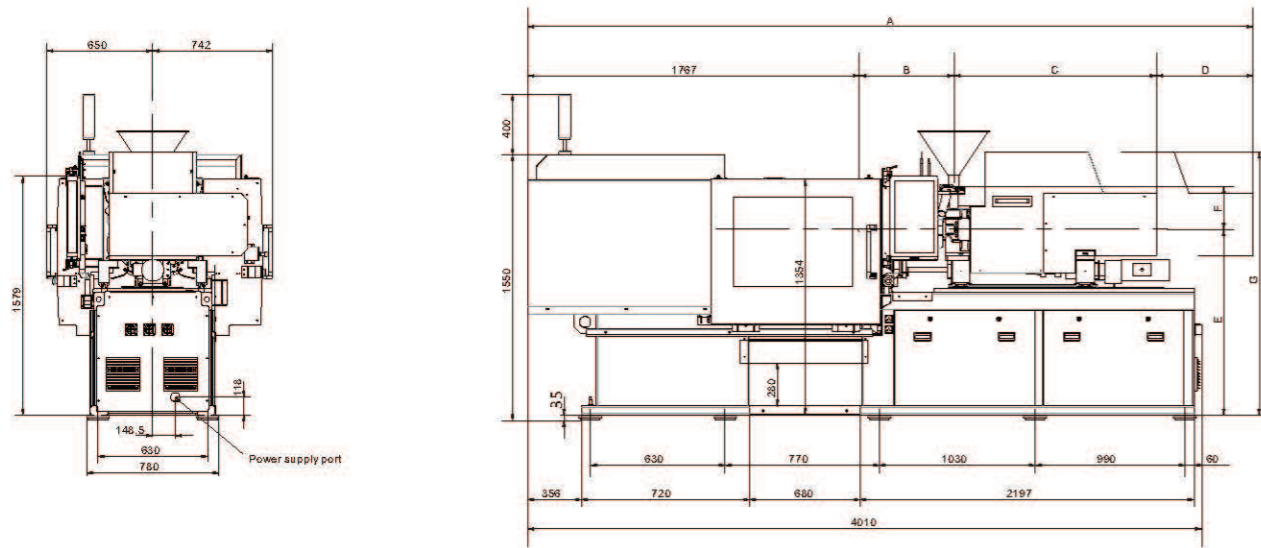
VALMO support modify REAL series machine with normal injection speed up to high injection speed and high dynamic mode.

支持全电动450吨以下任何注塑解决方案

Any injection molding solution under 450ton with fully electric machine support

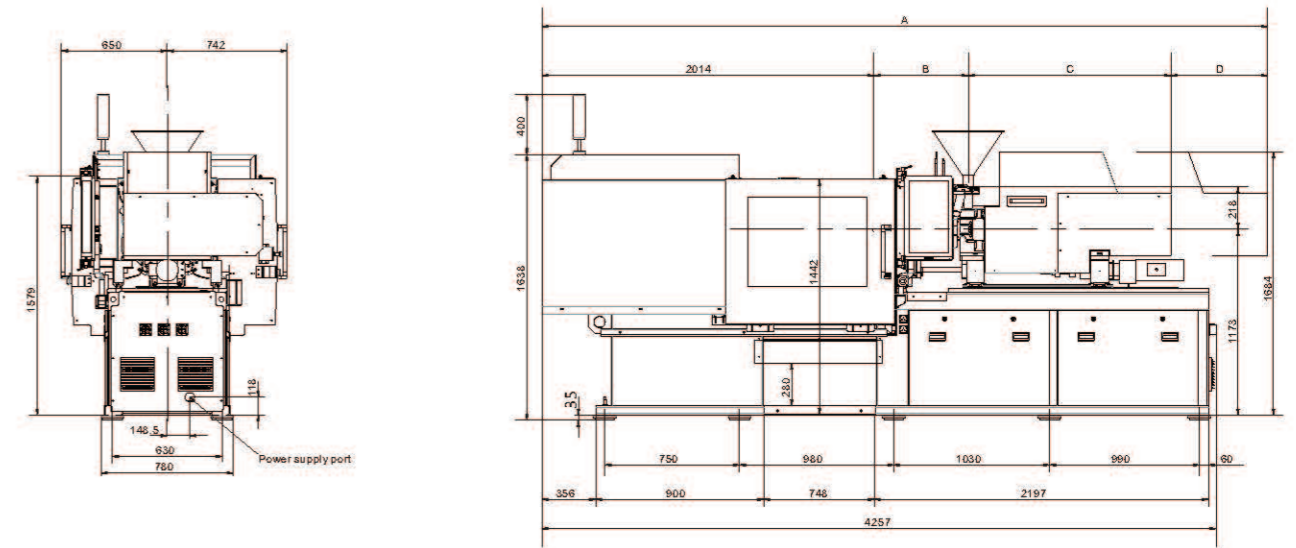
可提供任意特殊结构与工艺要求的小于450吨的全电动注塑解决方案，包括全套自动化装置，特殊工艺程序，技术培训等。

VALMO support any special structure and process requirements with full electric injection molding solution under 450ton, It's includes full automatic device, special process programming, technical training.



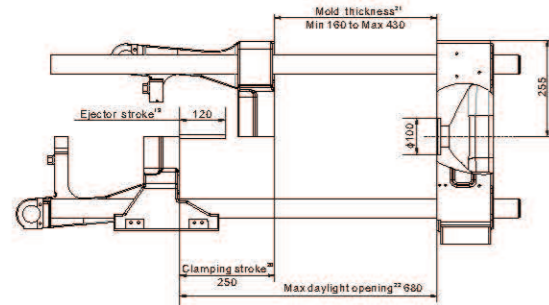
Real-E 50							
	A	B	C	D	E	F	G
70h	3807	640	1100	300	1120	197	1580
160h	3957	640	1230	320	1120	218	1631
290h	4323	870	1336	350	1120	218	1631

External View¹

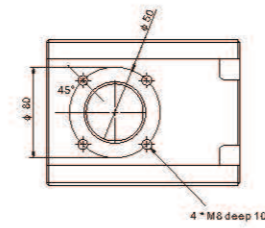


Real-E 80				
	A	B	C	D
160h	4204	640	1230	320
290h	4570	870	1336	350

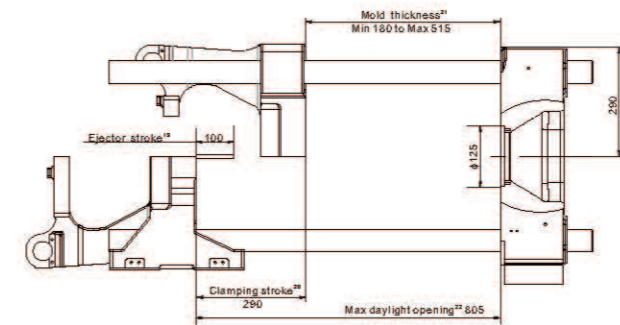
Mold area diagram²



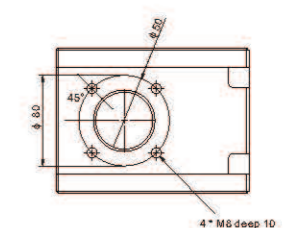
Hopper fixation diagram³



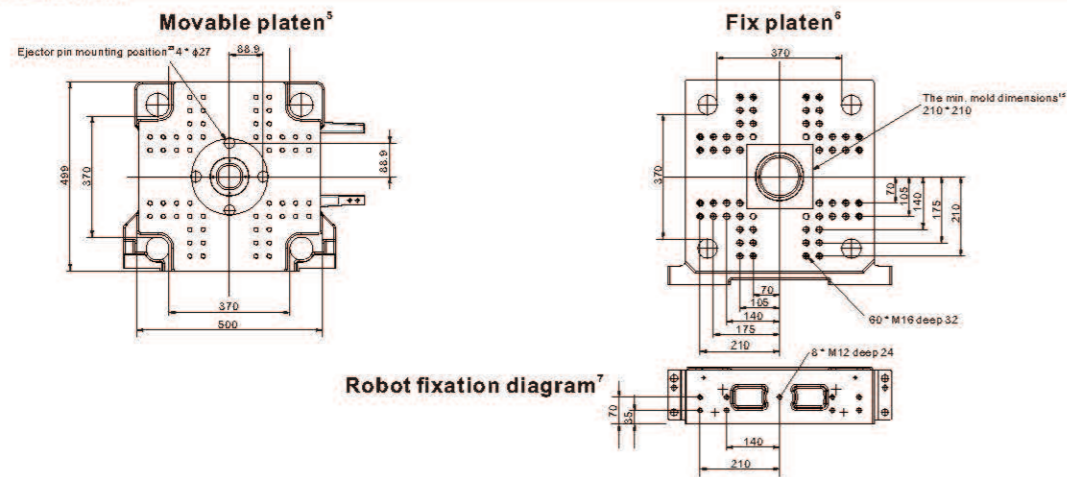
Mold area diagram²



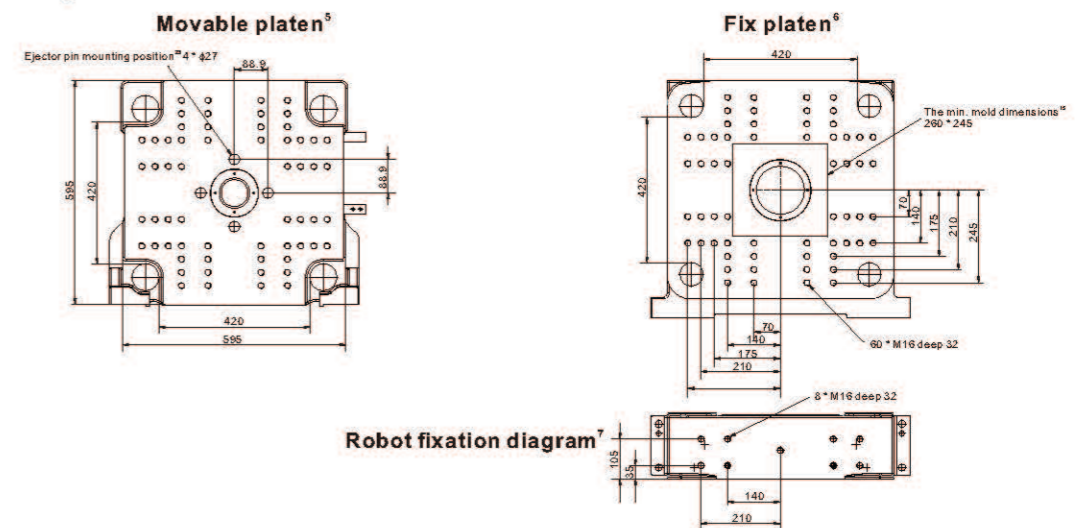
Hopper fixation diagram³



Mold platen diagram⁴



Mold platen diagram⁴

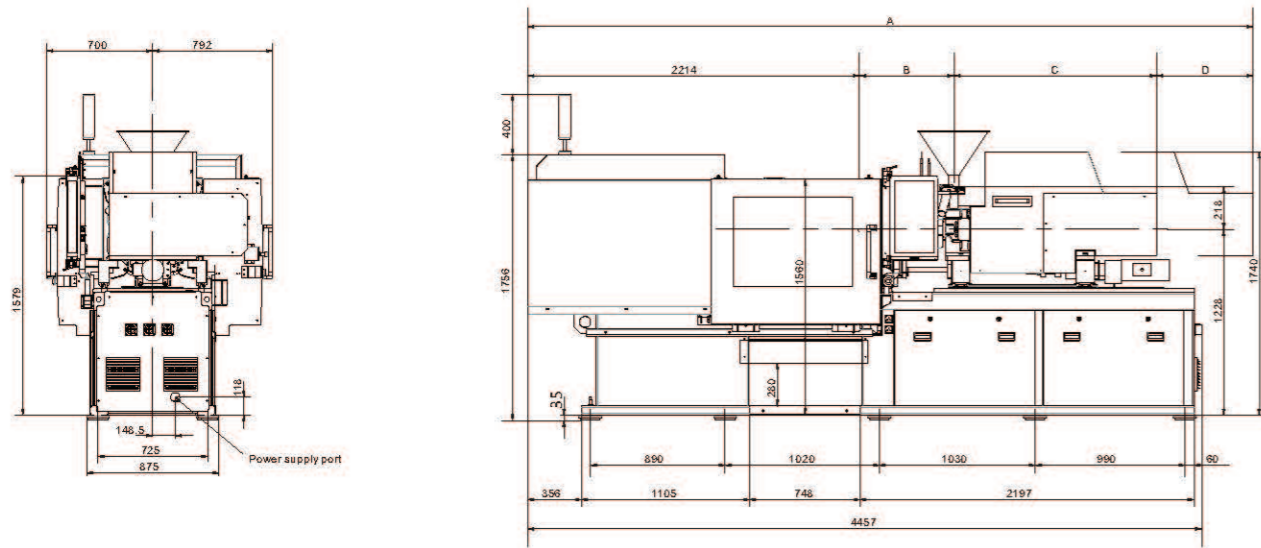


翻译对应表

1.机器外观 2.模具安装图 3.料斗安装图 4.模板图 5.动模板 6.定模板 7.机械手安装位置图 15.最小模具安装尺寸 19.顶针行程 20.移模行程 21.模厚 22.最大开模距离 23.顶杆安装孔位置

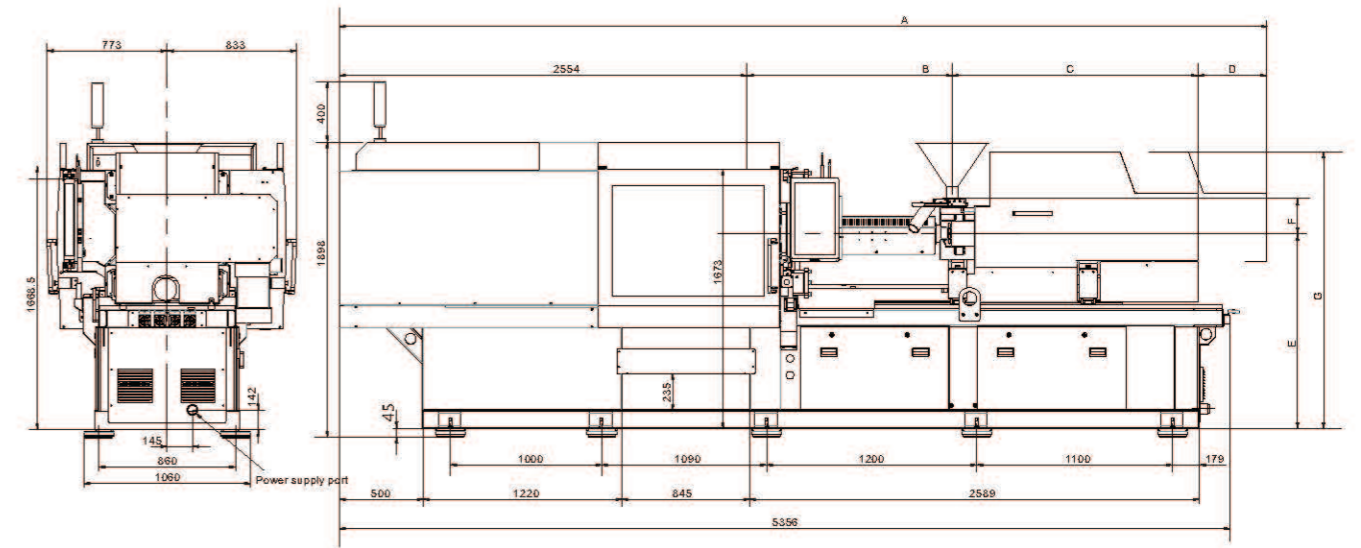
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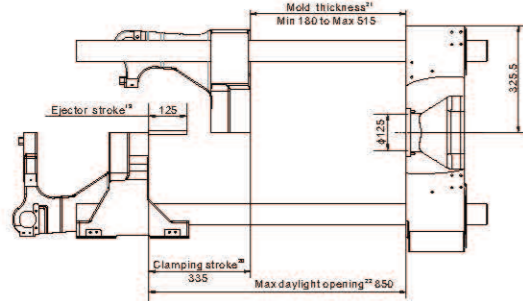
Real-E 120				
	A	B	C	D
160h	3957	640	1230	320
290h	4323	870	1336	350

External View¹

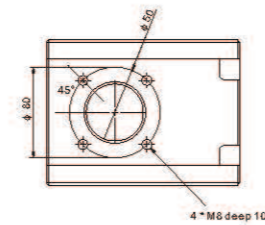


Real-E 150							
	A	B	C	D	E	F	G
290h	5110	870	1336	350	1285	218	1780
490h	5746	1200	1542	450	1285	230	1840

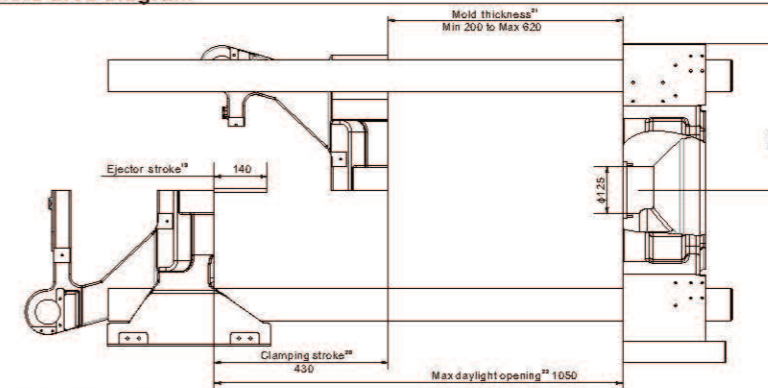
Mold area diagram²



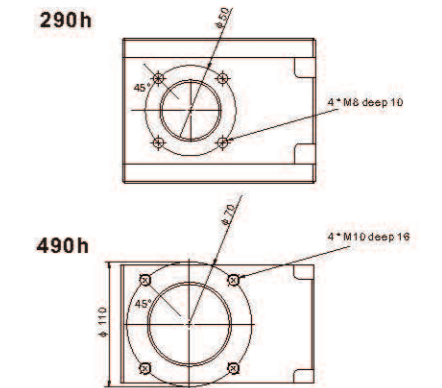
Hopper fixation diagram³



Mold area diagram²

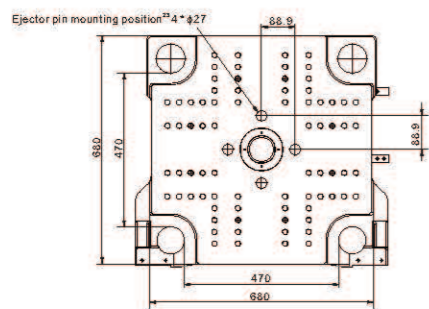


Hopper fixation diagram³

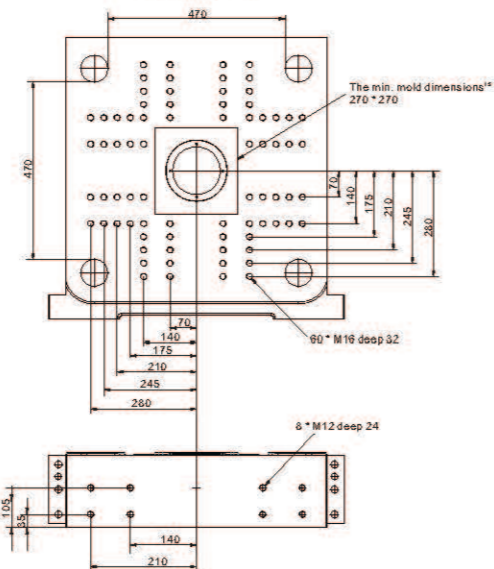


Mold platen diagram⁴

Movable platen⁵



Fix platen⁶

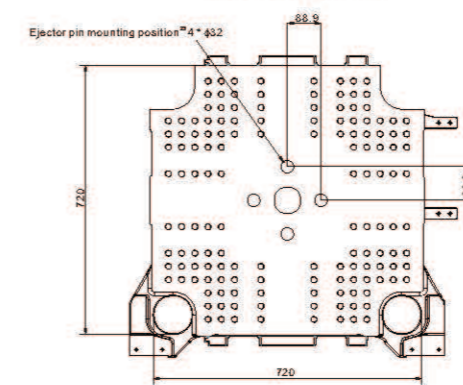


Robot fixation diagram⁷

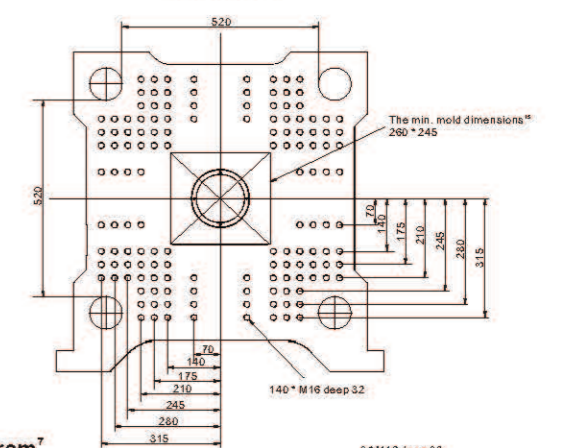


Mold platen diagram⁴

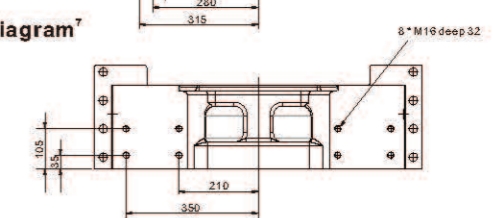
Movable platen⁵



Fix platen⁶



Robot fixation diagram⁷



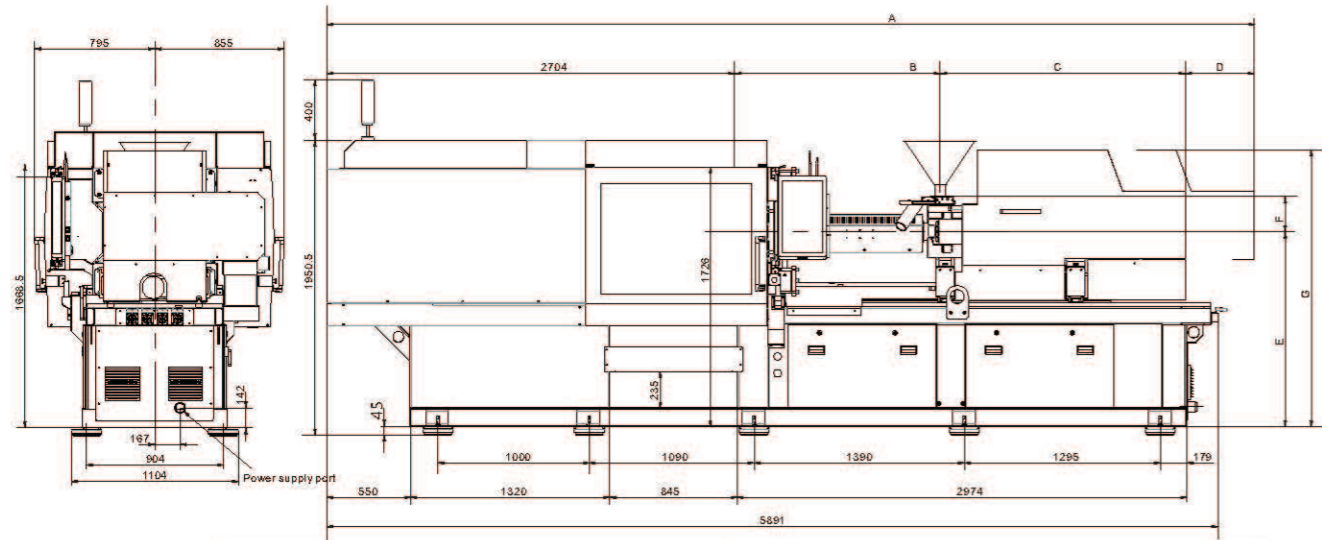
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翻译对应表

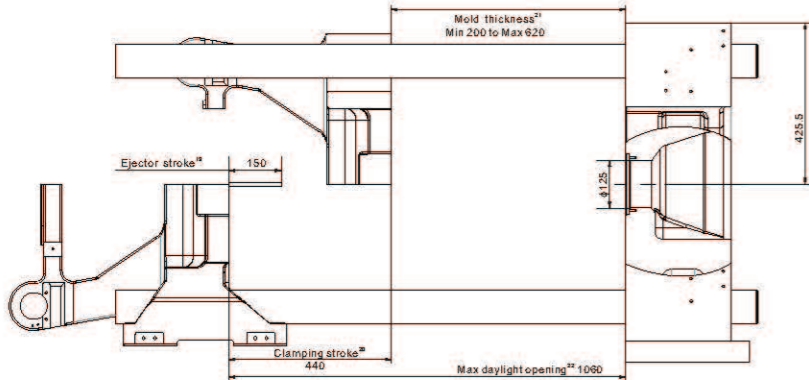
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External View¹

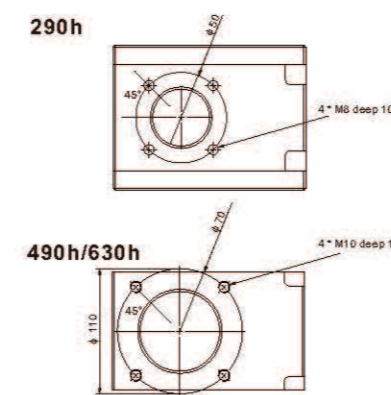


Real-E 180							
	A	B	C	D	E	F	G
290h	5260	870	1336	350	1300	218	1795
490h	5896	1200	1542	450	1300	230	1855
630h	6034	1255	1625	450	1300	230	1855

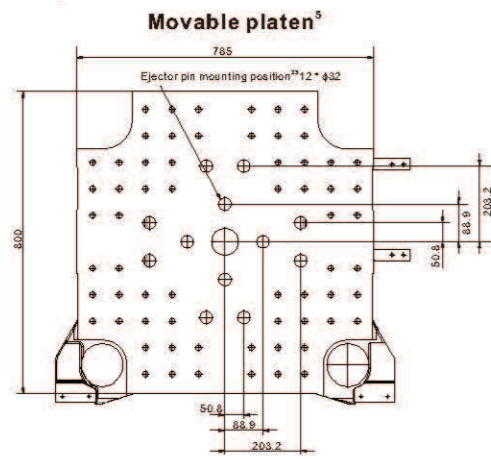
Mold area diagram²



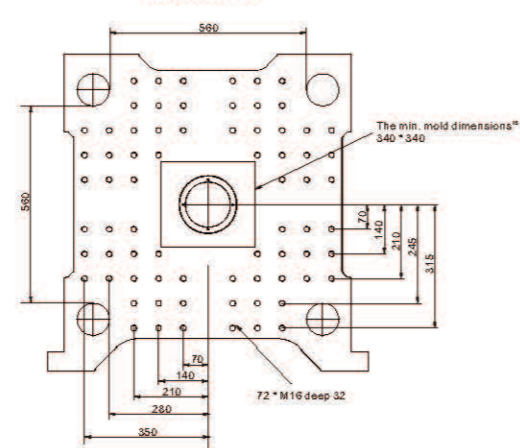
Hopper fixation diagram³



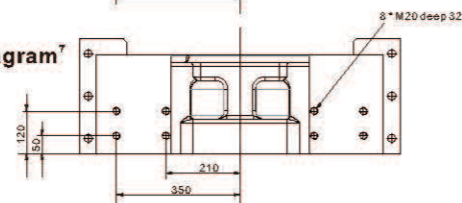
Mold platen diagram⁴



Fix platen⁶



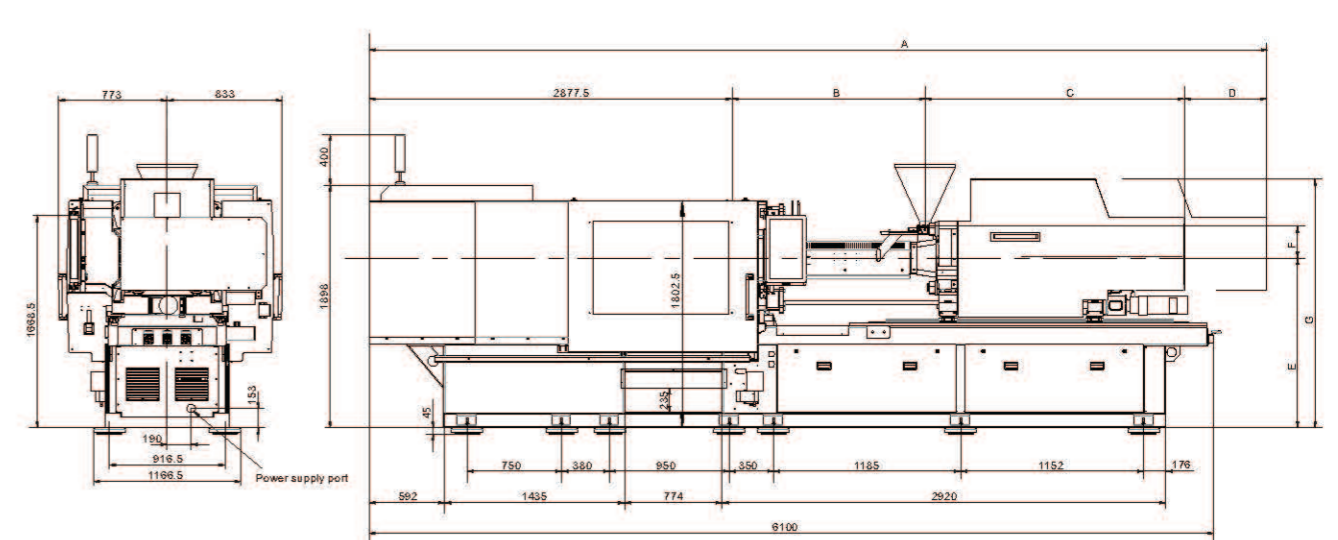
Robot fixation diagram⁷



翻译对应表

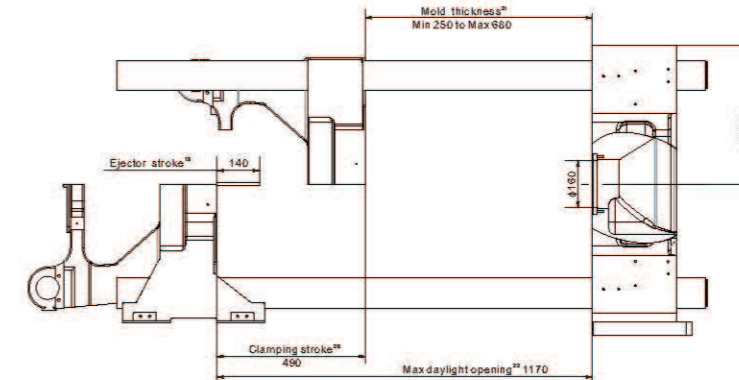
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External View¹

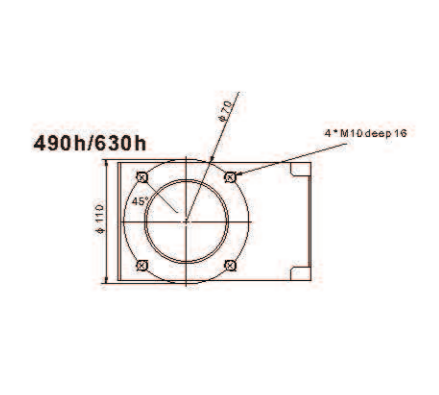


Real-E 220							
	A	B	C	D	E	F	G
490h	6070	1200	1542	450	1345	230	1900
630h	6208	1255	1625	450	1345	230	1900

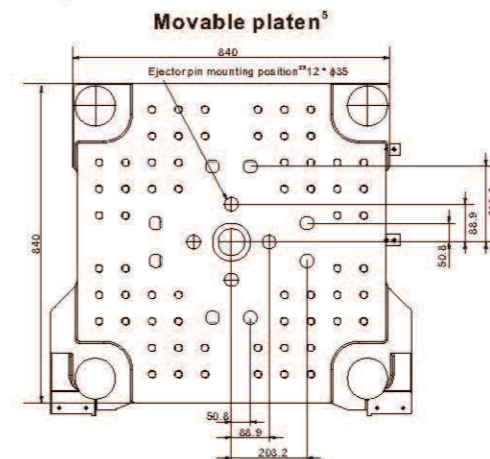
Mold area diagram²



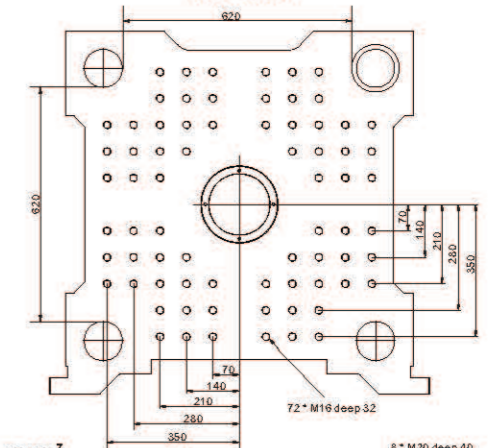
Hopper fixation diagram³



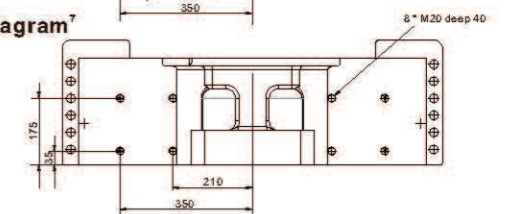
Mold platen diagram⁴



Fix platen⁶



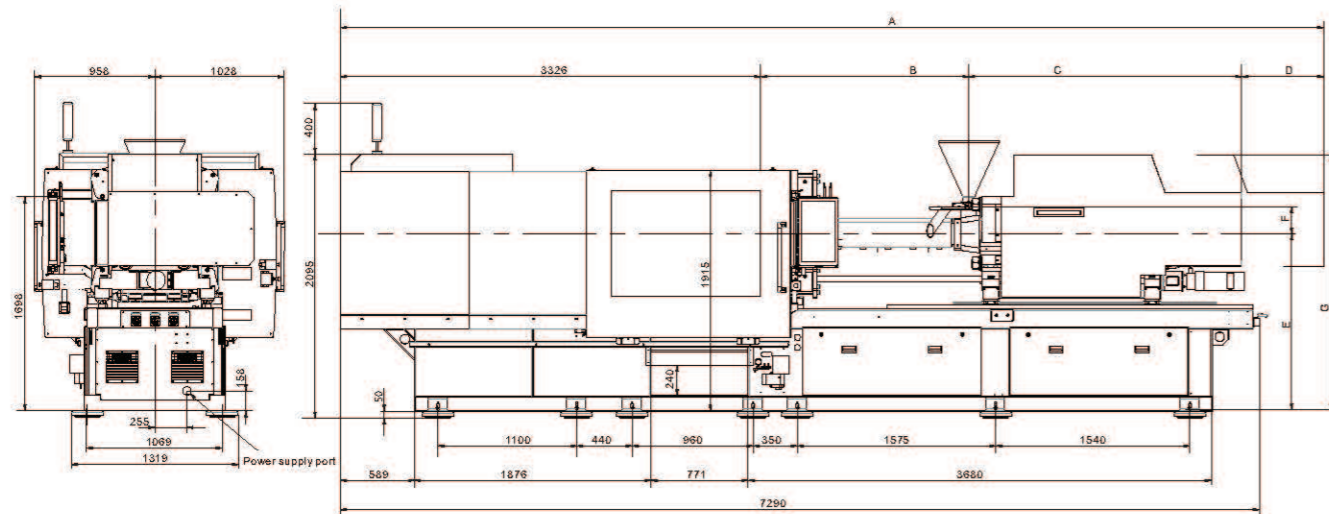
Robot fixation diagram⁷



翻译对应表

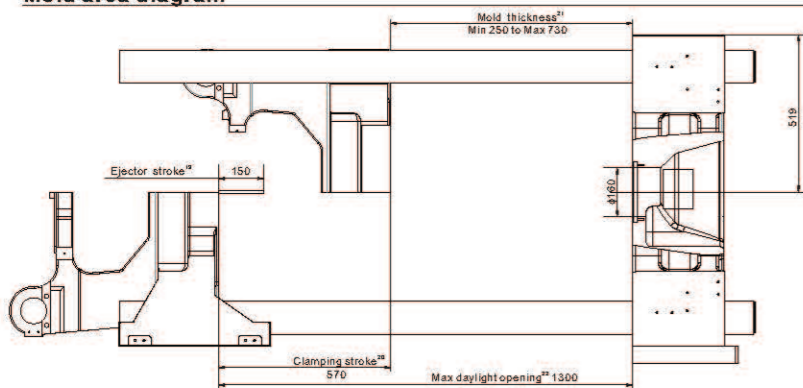
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External View¹

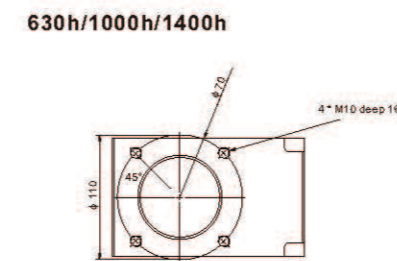


Real-E 280							
	A	B	C	D	E	F	G
630h	6656	1255	1625	450	1410	230	1965
1000h	7357	1526	2055	450	1410	244	2038
1400h	7650	1660	2165	500	1410	244	2038

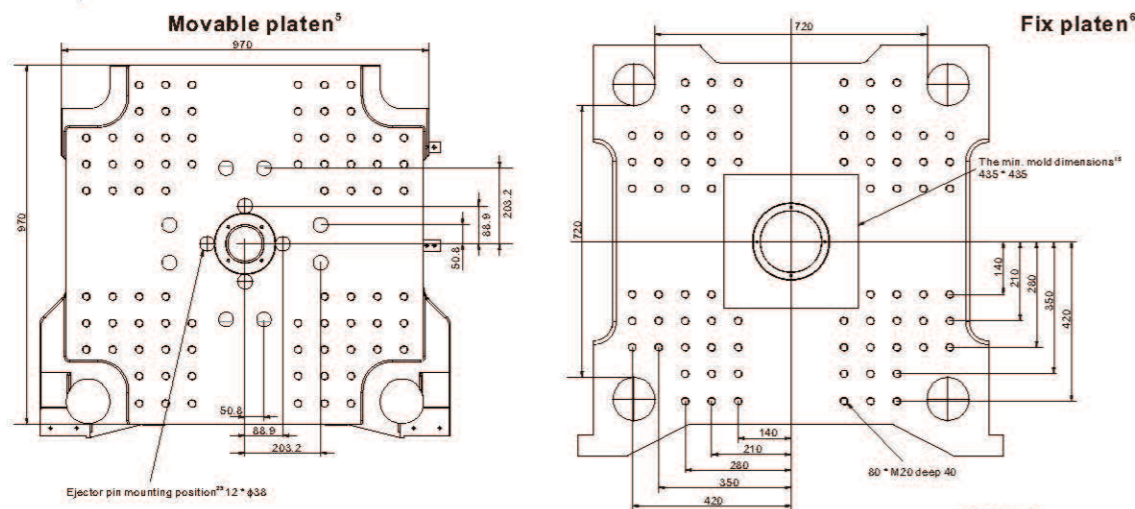
Mold area diagram²



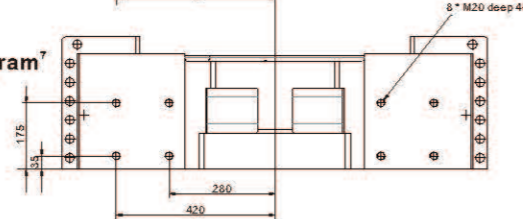
Hopper fixation diagram³



Mold platen diagram⁴

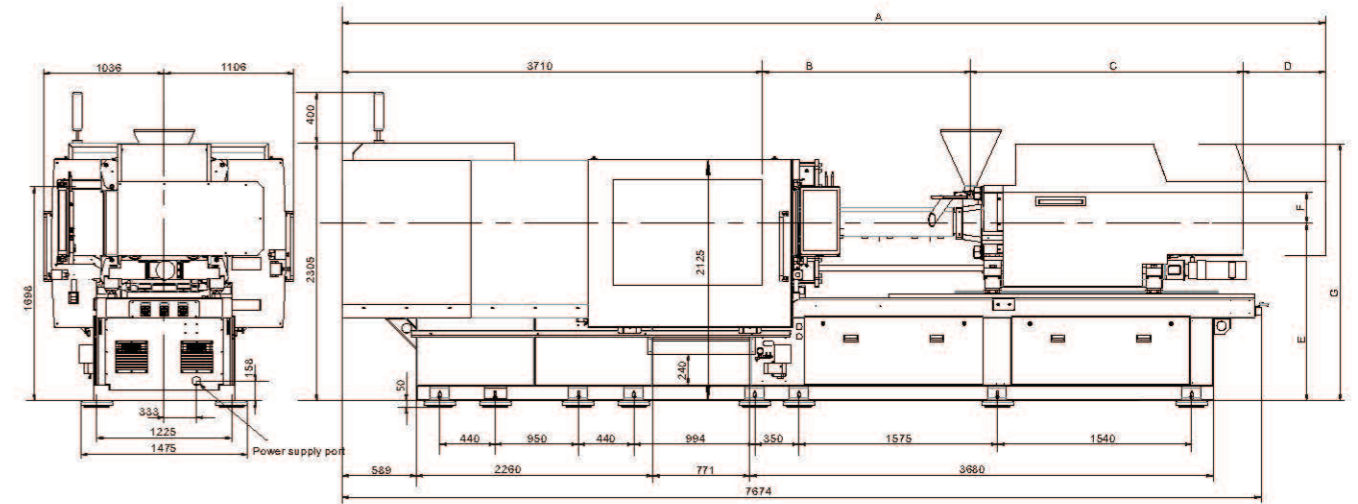


Robot fixation diagram⁷



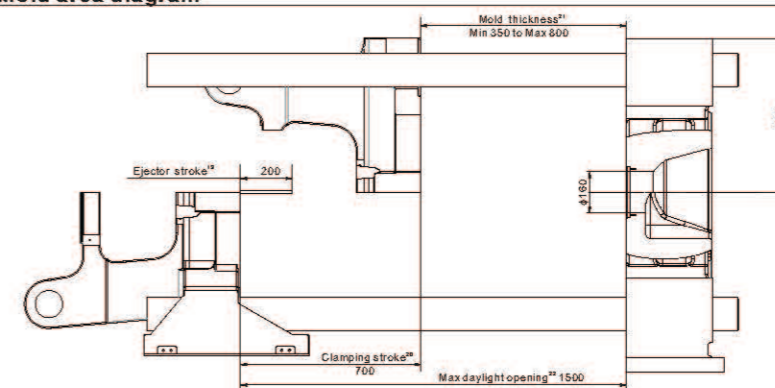
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External View¹

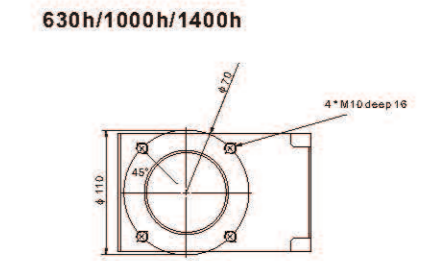


Real-E 350							
	A	B	C	D	E	F	G
630h	7040	1255	1625	450	1545	230	2100
1000h	7741	1526	2055	450	1545	244	2173
1400h	8034	1660	2165	500	1545	244	2173

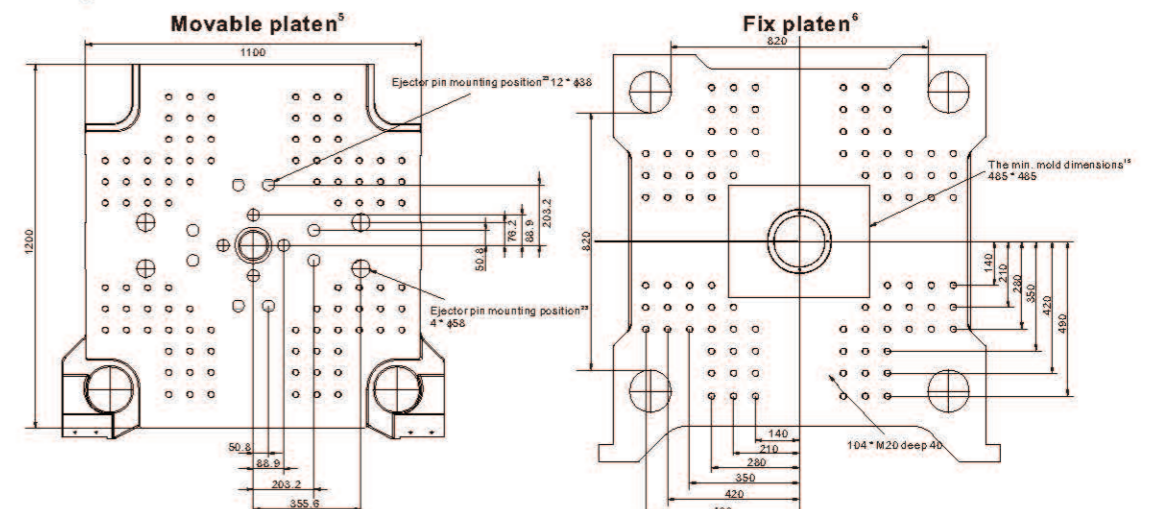
Mold area diagram²



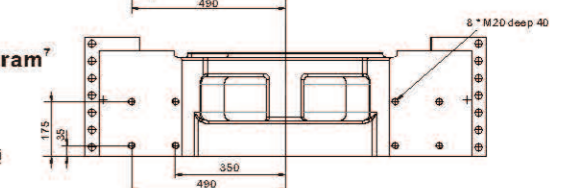
Hopper fixation diagram³



Mold platen diagram⁴

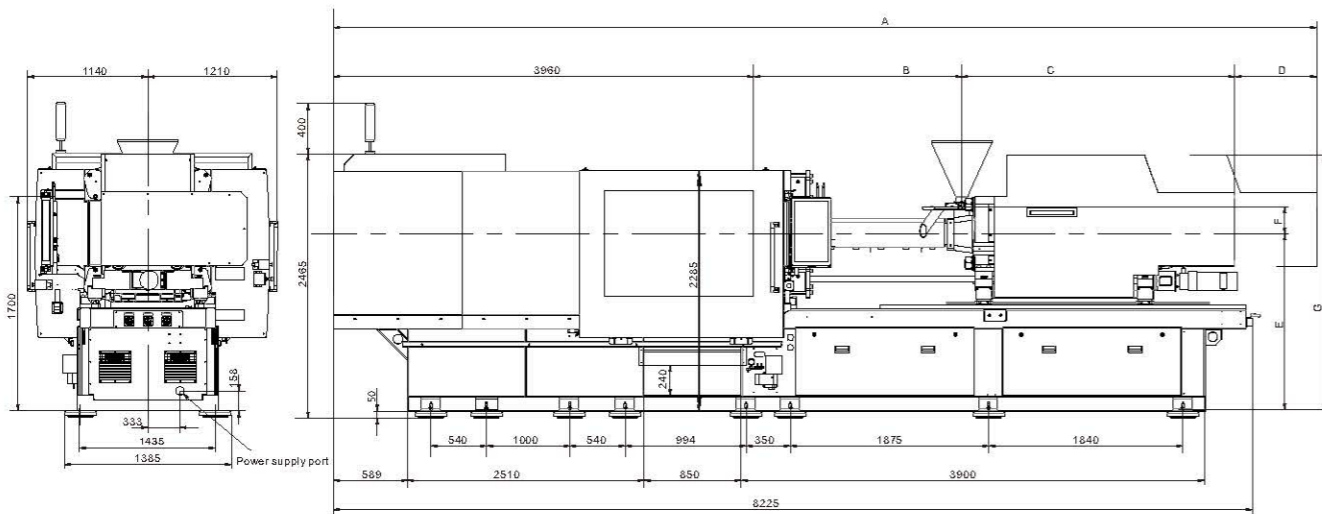


Robot fixation diagram⁷



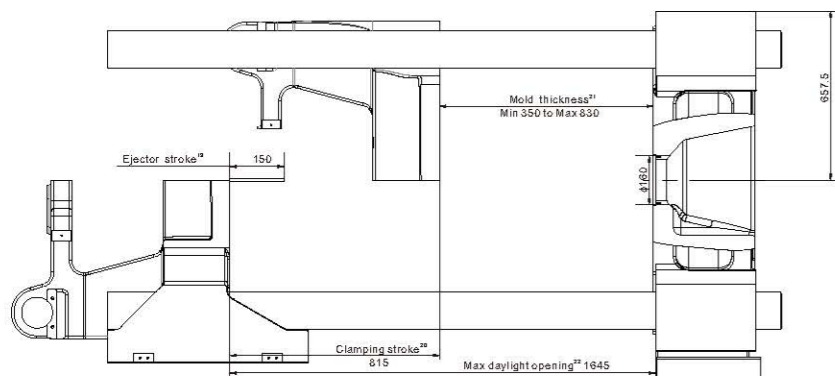
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External View¹



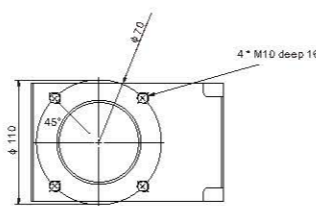
Real-E 450							
	A	B	C	D	E	F	G
1400h	8285	1660	2165	500	1640	244	2268
2050h	8680	1840	2380	500	1640	244	2300

Mold area diagram²

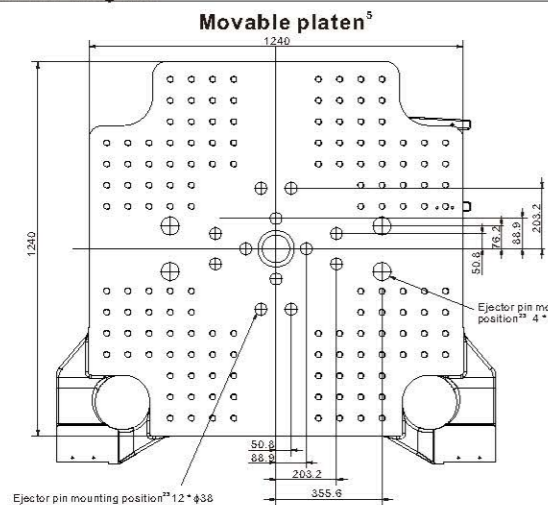


Hopper fixation diagram³

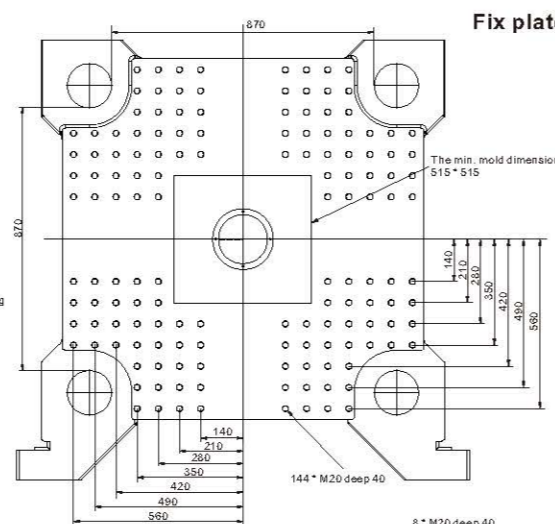
1400h/2050h



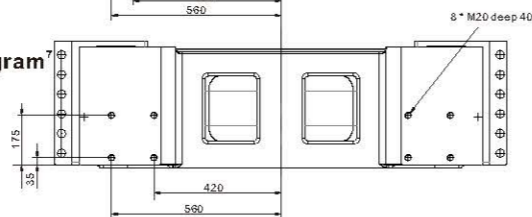
Mold platen diagram⁴



Fix platen⁶



Robot fixation diagram⁷



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选配功能 Option ○
标准功能 Standard ●

合模单元 Clamping Unit

5点轴杆合模机构	5-Points toggle lever system	●
通过皮带带动丝杆驱动模板	Clamp movement via screw and belt drive	●
6段开合模速度可调	6 adjustable open and close speeds	●
锁模力调整	Clamping force adjustable	●
自动调模	Automatic mold height adjustment.	●
高精度位置、扭力控制	Precise positioning, speed and force control	●
高灵敏2段模具保护	High sensitivity mold protection with two stages	●
自动润滑	Automatic lubrication	●
实时吨位显示	Actual tonnage display on HMI	●
动模板使用线性导轨	Linear guide for moving platen	●
液压或气动中子	Hydraulic or pneumatic core pull	○
3组气阀(动模2组定模1组)	3 Air valve (2 in moving platen, 1 in fixed platen)	●
高速气阀	High speed air valves	○
锁模力闭环控制	Close-loop clamp tonnage control	○
双色或多色转盘	Duo color or multi color turntable	○
双色转轴	Duo color index	○
冷却时开模	Open mold during cooling	●
储料时开模	Open mold during charging	●
成品掉落检测	Products drop check	○
接油盘	Oil drip pan	●
合模安全装置	Mold safety device	●

顶针 Ejector

通过皮带带动丝杆驱动顶针	Ejector movement via screw and belt drive	●
3段顶针前进后退速度和扭力可调	3 Stage ejector movement speed adjustable	●
顶出震动1-99次	Ejector vibration 1-99 times adjustable	●
顶针回退电眼	Ejector back end sensor	○
顶针扭力保护	Ejector torque protection	●
顶针软件零位设定	Ejector back end position adjustable	●
延时顶出功能	Ejector forward delay	●
顶出保持功能	Ejector holding	●
模具安装准备模式(调模模式)	Mold setting mode available	●
开模中顶出功能	Ejector during mold opening	●
锁模时顶出功能(切料把)	Ejector when mold closed (cut cold runner)	●

注射单元 Injection unit

每种注射单元可选3种直径的螺杆	3 different screw diameters available for each injection unit type	●
氮化螺杆与料筒	Nitrided barrel screw	●
双金属料筒和硬化螺杆	Bimetallic barrel and hardened screw	○
不锈钢料筒罩	Barrel cover with perforated metal	○
通过皮带和丝杆驱动注射	Injection movement via ball screw and belt drive	●
超高速注射	Ultra-high speed injection	○
10段注射速度可调	10 Stages injection movement speed adjustable	●
5段保压可调	5 Stages pressure holding adjustable	●
3段塑化背压、螺杆转速可调	3 Stages rotate speed and backpressure adjustable in plasticizing	●
强力保压功能(更大保压压力和更长保压时间)	Stronger holding for more holding pressure and longer holding time	○
螺杆转速实时显示	Screw rotate speed display	●
前松退和后松退功能	Screw suckback and pre- suckback	●

选配功能 Option ○
标准功能 Standard ●

注射单元 Injection unit

螺杆冷启动保护	Screw cold start protection	●
自动清料	Auto purge	●
压缩注塑功能	Compress injection	●
双阶注射结构	Two-stages plunger system	○
料筒密封喷嘴	Shut-off nozzle	○
落料口温度控制	Hopper with temperature control	●
喂料桶	Material hopper	○
自动混色上料器	Adapter plate for coloring unit and hopper loader	○
滑动下料座	Slide hopper loader	●
混色控制器	Coloring control unit	○
加长喷嘴	Long nozzle	○
注射安全罩	Injection safety protection	●
注射前延时	Injection delay	●
储料前延时	Charge delay	●
6种VP切换模式	6 VP transfer mode selection	●
喷嘴接触力调整	Nozzle contact force adjustable	●
陶瓷料筒加热圈	Ceramic barrel heater	○
自动加热功能	Automatic heating start and shutdown	●
加热电流功率显示	Actual current and energy display of every heating zone	○
热电偶短路检测	Heating zone and thermocouple failure detection	●
保温功能	Heating standby	●
同斜率加热	Zones heating up synchronous	●
喷嘴接触力监控	Nozzle contact force monitor	○

控制系统 Controller

高性能PLC系统	High performance PLC system	●
21.5英寸显示器配备电容式触摸屏	21.5inch full color LCD with capacitive touch	●
多种外接端口,包括以太网,USB接口,HDMI,CAN总线等	Various interface for external devices, like Ethernet, USB, HDMI, CAN	●
通过USB接口保存数据	USB storage	●
参数输入保护,提示	Keypad with limitation, and tips	●
10000条警报和操作记录	10000 lines of alarms and operation log	●
10000组生产数据记录	10000 groups product data records	●
10000组工艺文件保存	10000 process data files saved	●
全自由编程功能	Full free programmable process sequence	●
使用用户名与密码来登陆系统	Use ID and Password to login the system	●
多语言支持	Multi-language	●
SPC数据分析	SPC products data analyzer	●
SCADA机器数据记录功能	SCADA machine status data records	●
远程协助,软件更新,故障处理	Remote diagnostics, software upgrade, technical supports	●
屏幕截取	Print screen and save	●
中央集中控制	Centralized control	○
运行流程分析	Breakdown analyzer	●
多种国际单位切换	Multi unit	●
电能计量	Energy meter	○
热流道温度控制器	Hot runner controller	○
I/O检测和状态显示	I/O check and status	●
质量判别和统计以及质量曲线	Quality criteria and statistics, the quality curve	●
质量异常处理功能	Quality exception handing	●
生产管理功能	Production management	●
打印机,支持打印机共享功能	Printer, support share print function	○

选配功能 Option ○
标准功能 Standard ●

控制系统 Controller

锁模力曲线监控	Clamp force curve monitor	●
模数计数器	Molding timer	●
下料口温度显示	Hopper actual temperature display	●
使用鼠标	Mouse support	●
多级窗口显示模式	Pop-up window	●

伺服驱动 Servo drive

高性能伺服驱动系统	High performance servo driver	●
全闭环控制速度,位置,扭力	Close-loop speed, position and force	●
高速以太网现场总线	High speed Ethernet field bus link system	●
直流母线供电技术	DC link power support	●
能量回馈功能	Energy feedback system	○
射台移动使用伺服电机	Injection unit driven by servo motor	○
超低惯量伺服马达获得更高注射动态性能	Ultra-low inertia injection motor for higher dynamic performance	○

其他 Others

欧规12接口	Euromap 12 interface	●
欧规67接口	Euromap 67 interface	○
取出机械手安装面	Mounting patterns for robot on fixed platen	●
冷却水排	Cooling water fence	○
冷却水接口至动模板水管支架	Hosting from cooling water connector to stationary or moving platen	○
后安全门操作	Part remove from rear safety door	○
输送带接口	Conveyer belt interface	○
辅机电源插头2组	2 Electric panel for aux. equipment	○
无线网络连接模块	Wi-fi module	○
安全围栏锁定接口	Interface for safety fence lock	○
4组可编程I/O	4 programmable I/O	○
三色报警灯(德国伟马)	3 color alarm lamp (WERMA)	●
定制不同外观颜色	Custom paint color	○

VALMO



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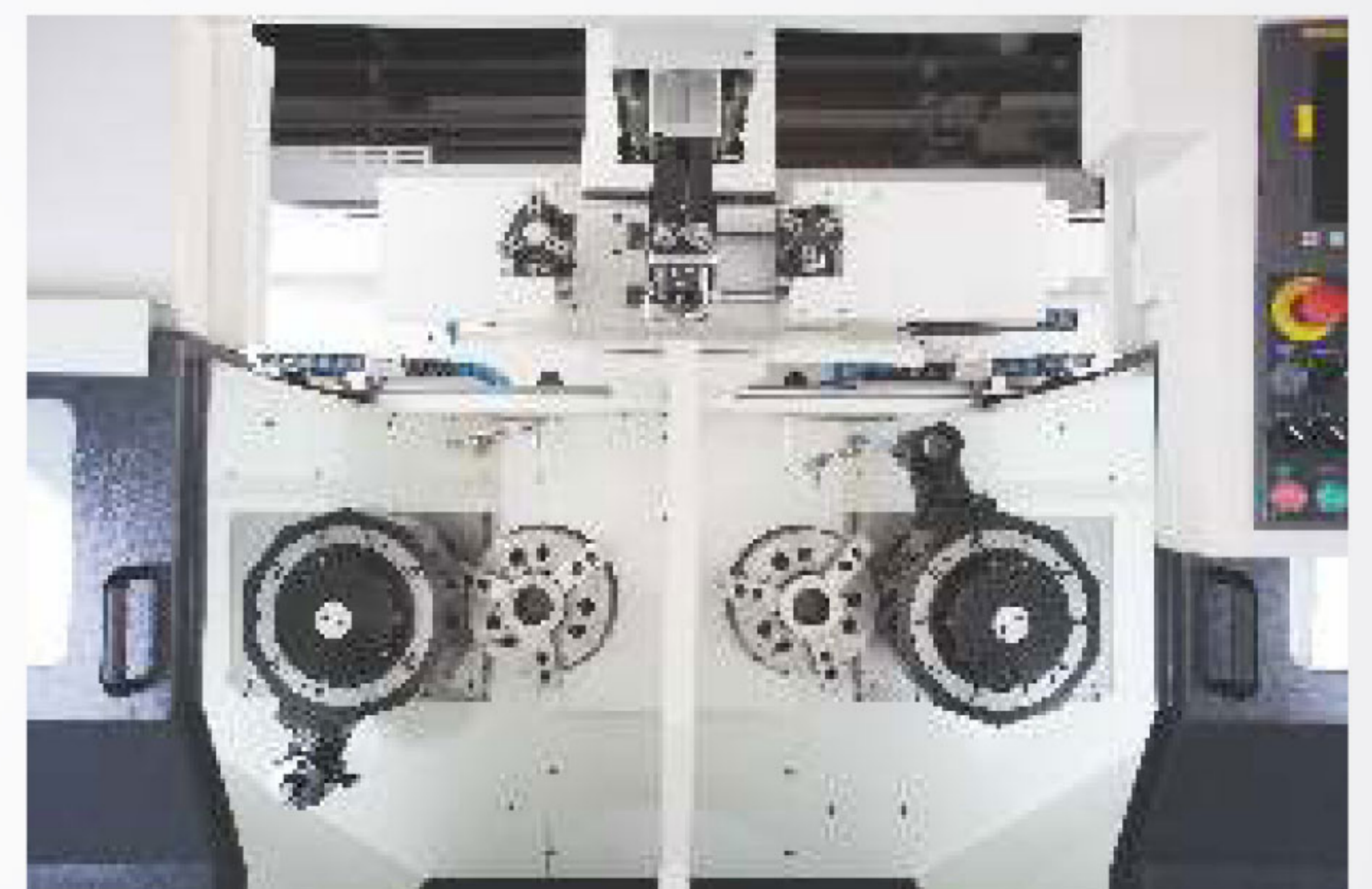
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LCXT 20G



LCXT 20G

- Compact foot print
- Split Bed construction
- Straight Down coolant and chip disposal
- Cartridge type thermally stabilized spindle with high axial and radial rigidity
- Servo turret
- 3 axis gantry loader with part carousel
- Synchronous twin loader operation
- Easy Maintenance



Gripper



Gantry Specifications

Workpiece	
Work piece weight	6x2 Kg
Work piece size	200x120 mm
Axis	
U axis stroke	4200 mm
V axis stroke	650 mm
W axis stroke	300 mm
U axis Rapid	160 m/min
V axis Rapid	120 m/min
W axis Rapid	55 m/min

SPECIFICATIONS

LCXT 20G

Capacity	
Swing Over Bed	450 mm
Swing over carriage	450 mm
Maximum Turning Dia.	360 mm
Maximum Turning Length	190 mm
Control System	
	Fanuc Oi-TD
Spindle	
Spindle Nose	A2-6
Bore through Spindle	63 mm
Max. Spindle Speed	3500 rpm
Spindle Motor Power (Fanuc - Continuous)	Fanuc -11 kW
Spindle Motor Power(30 min.)	Fanuc - 15 kW
Full Power Range	Fanuc 875 - 3500 rpm
Standard Chuck Size	165 mm
Axes	
Type of Guideways:	
X-axis	LM Guideways
Y-axis	Ram type hardened guide
X-Axis Stroke	190 mm
Z-Axis Stroke	190 mm
X & Z Axes Rapid Rate	24 m/min.
Tooling	
Turret Type	Servo
Number of Tools Maximum	10 (12)
Boring Bar Dia Maximum	40 mm
OD Turning Tool Size	25 mm
Hydraulic System	
Hydraulic Pump Capacity	14 lpm
Hydraulic Power Pack Tank Capacity	45 litres
Coolant Tank Capacity	300 litres
Overall Machine Dimensions (L x W x H)	3815 X 1872 X 2171 mm
Overall Weight (Without Packing)	~ 4400 kg

()-Values mentioned in bracket are optional

Owing to continuous up-gradation of our products, the specification may change and to be reconfirmed at the time of ordering. Features shown may not be part of the standard equipment.

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