



GENERAL

CATALOGUE

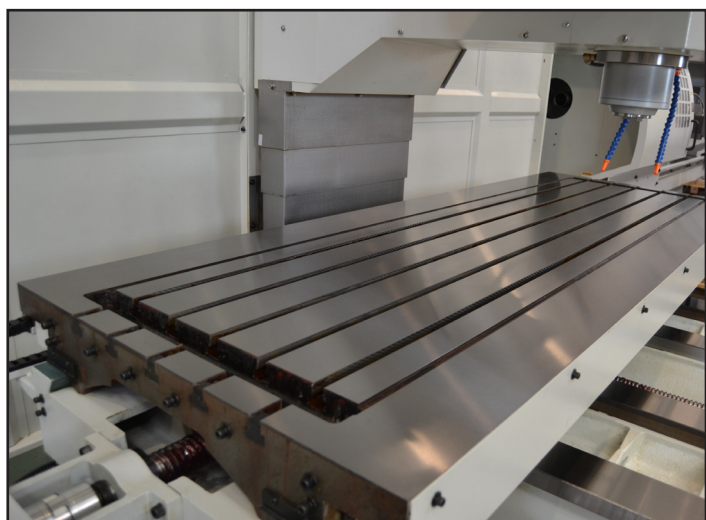




ENG	ESP	POR	UNIT	MM-4	M-800SL
Table surface	Superficie de la mesa	Superfície da mesa	mm	800 x 250	960 x 460
Axes travel: X / Y / Z	Carrera eje X / Y / Z	Curso eixo X / Y / Z	mm	400 - 200 - 375	800 / 500 / 500
Rapid feedrates: X / Y / Z	Avances rápidos X / Y / Z	Avanço rápido X / Y / Z	mm/min	15000	25000
Max. Weight on the table	Carga máxima admisible de la mesa	Carga máxima admissível da mesa	kg	80	600
Speed range	Gama de velocidades	Gama de velocidades	rpm	1 - 8000	1 - 10000
Main motor power	Motor principal	Motor principal	kW	3,5 / 5,2	7,5
Spindle taper	Cono del eje portafresas	Cone eixo árvore			
Tool changer: Type / positions	Cambiador de herramientas: Tipo / pos.	Trocador de ferramentas: Tipo / posições		Carousel 8	Carousel 20 / Random 24

Linear

*We reserve the right to make changes without notice



MILITARY TURNING CENTER



Guideways / Guías Lineales / Guías Lineais | Box Guideways / Guías Cuadradas / Guías Quadradas

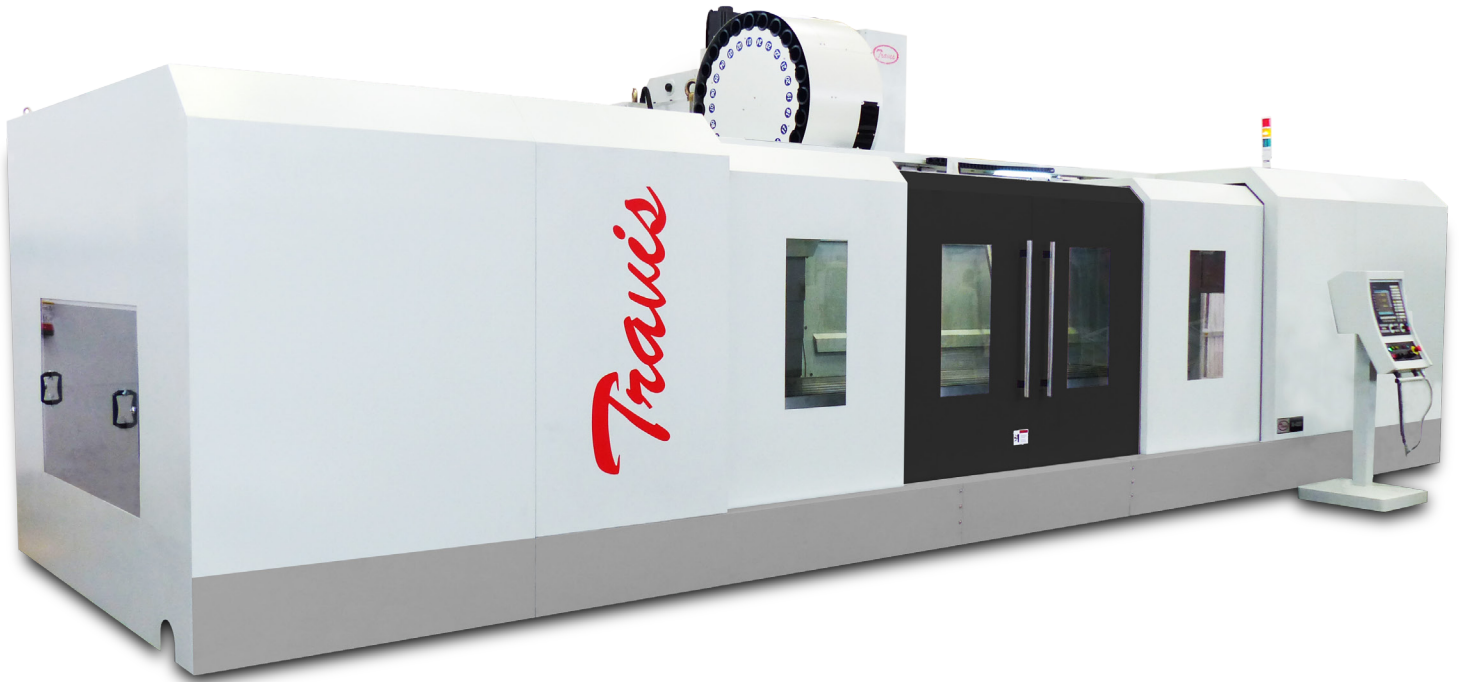
M-1000SL	M-1500SL	M-1000	M-1500	M-2000	M-2500	M-3000	M-4000
1200 x 530	1700 x 600	1200 x 505	1700 x 600	2180 x 810	2845 x 762	3200 x 1000	4200 x 1000
1000 / 600 / 700	1500 / 680 / 870	1000 / 530 / 600	1500 / 680 / 870	2000 / 860 / 710	2500 / 807 / 700	3000 / 1000 / 900	4000 / 1000 / 1000
25000	25000	25000	25000	18000 / 10000	15000 / 10000	5000	5000
800	1000	1000	1000	1600	1800	2000	2000
1 - 10000	1 - 10000	1 - 8000	1 - 8000	1 - 6000	1 - 8000	1 - 8000	1 - 8000
11 / 18,5	15 / 22	11 / 18,5	15 / 22	15 / 22	15 / 22	15 / 22	15 / 22

Mas - 403 BT 40

Random 24	Random 24	Carousel 20 / Random 24	Carousel 20 / Random 24	Carousel 20 / Random 24	Carousel 20 / Random 24	Carousel 20 / Random 24	Carousel 20 / Random 24
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*Option



▼ **CNC Fanuc Oi-MF & Oi TF**

- LCD color screen 10,4"
- Manual Guide
- Ethernet, USB & memory card



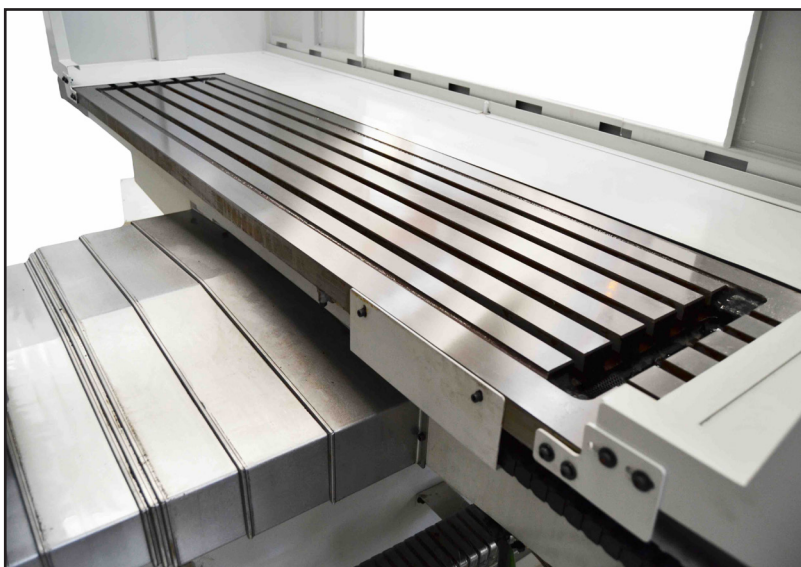
▲ **CNC Fagor 8060 & 8055**

- LCD color screen 10,4"
- Conversational mode
- Ethernet & USB



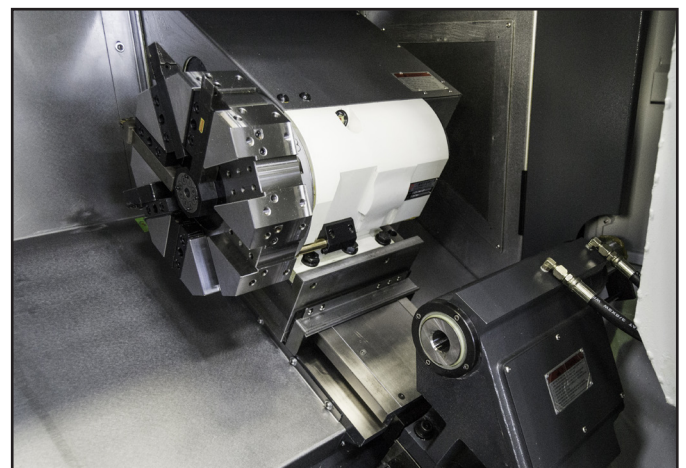
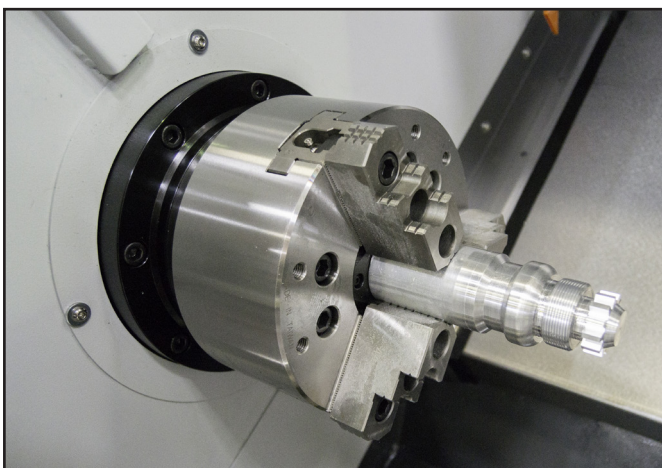
CNC MILLING MACHINES	FRESADORAS CNC	FRESADORAS CNC	UNIT	M-5	M-6	M-7	M-8
Table surface	Superficie	Superficie	mm	1205 x 350	1340 x 400	1800 x 450	2250 x 810
Axes travel: X / Y / Z	Carrera eje X / Y / Z	Curso eixo X / Y / Z	mm	800 / 400 / 450	1000 / 500 / 530	1500 / 650 / 620	2000 / 850 / 710
Rapid feedrates: X, Y / Z	Avances rápidos X, Y / Z	Avanço rápido X, Y / Z	mm/min	18000 / 10000	18000 / 10000	18000 / 10000	18000 / 10000
Max. Weight on the table	Carga máxima admisible de la mesa	Carga máxima admissível da mesa	kg	600	1000	1300	1600
Speed range	Gama de velocidades	Gama de velocidades	rpm	1 - 6000	1 - 6000	1 - 6000	1 - 6000
Main motor power	Motor principal	Motor principal	kW	7,5	11	11	15
Spindle taper	Cono del eje portafresas	Cone eixo árvore		Mas-403 BT40			

*We reserve the right to make changes without notice





SLANT BED	BANCADA INCLINADA	BANCADA INCLINADA	UNIT	TS-1	TS-2	TS-3	TS-4
Maximum turning diameter	Diámetro máximo torneable	Diâmetro maximo usinado	mm	240	360	360	520
Bar capacity	Ø pasaje de barra	Ø maximo de passagem da barra	mm	42	52	75	85
Bed swing diameter	Volteo sobre bancada	Diâmetro sobre o barramento	mm	450	530	530	600
Saddle swing diameter	Volteo sobre carro transversal	Diâmetro sobre o carro transversal	mm	280	380	380	400
Maximum turning length	Distância máxima torneable	Comprimento máximo torneavel	mm	300	500	750	750
Maximum spindle speed	Velocidad máxima del husillo	Velocidade máxima do spindle	rpm	5000	4500	3500	3000
Main motor power	Potencia motor principal	Potência motor principal	kW	5,5 / 7,5	11 / 15	15 / 18,5	15 / 18,5
Axes travel: Z / X	Carrera eje X, Z	Carrera eje X, Z	mm	125 / 300	180 / 500	180 / 750	260 / 750

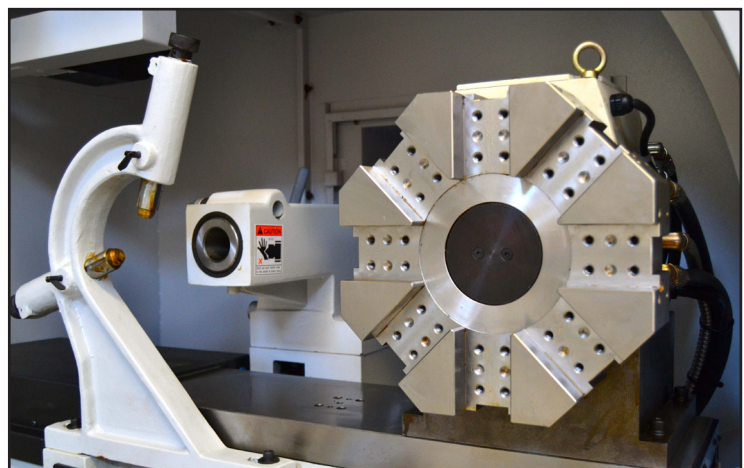
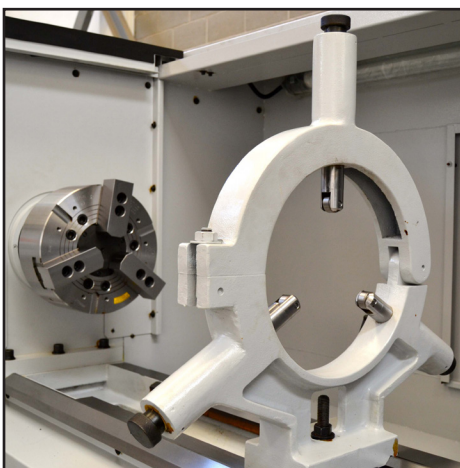




Electric Turret / Torreta Eléctrica / Torre Eléctrica | Hydraulic Turret / Torreta Hidráulica / Torre Hidráulica

FLAT BED	BANCADA PARALELA	BANCADA PARALELA	UNIT	TR-1 XP	TR-2 XP	TR-2	TR-3	TR-4	TR-5
Maximum turning diameter	Diámetro máximo torneable	Diámetro máximo usinado	mm	200	305	300	380	380	450
Bar capacity	Ø pasaje de barra	Ø máximo de passagem da barra	mm	56	85	85	105	105	155
Bed swing diameter	Volteo sobre bancada	Diámetro sobre o barramento	mm	460	630	630	770	840	1300
Saddle swing diameter	Volteo sobre carro transversal	Diámetro sobre o carro transversal	mm	230	400	400	500	570	900
Maximum turning length	Distancia máxima torneable	Comprimento máximo torneavel	mm	1000	1500	2000	1600 - 4100	1600 - 4100	1700 - 6200
Maximum spindle speed	Velocidad máxima del husillo	Velocidade máxima do spindle	rpm	150 - 3200	125 - 2250	124 - 2250	92 - 1500	92 - 800	32 - 800
Main motor power	Potencia motor principal	Potência motor principal	kW	7,5	11	11	15	15	18,5 / 30
Axes travel: Z / X	Carrera eje X, Z	Carrera eje X, Z	mm	280 / 810	350 / 1310	375 / 1810	450 / 1500 - 4000	480 / 1500 - 4000	680 / 1500 - 6000

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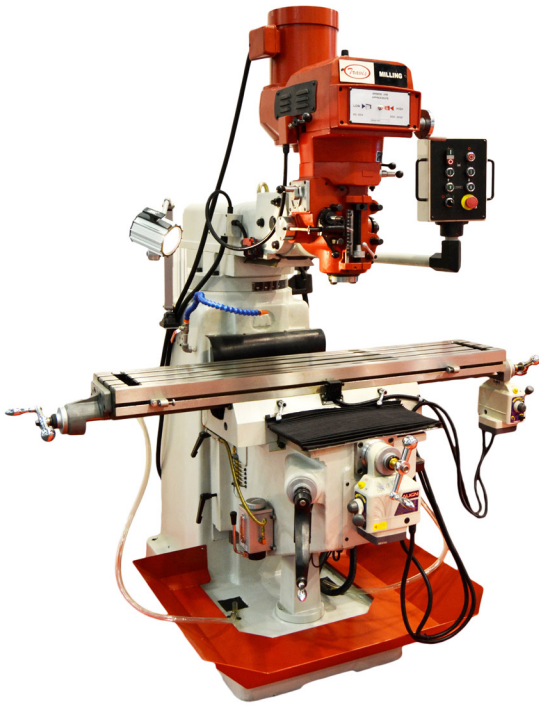


CONVENTIONAL MACHINES



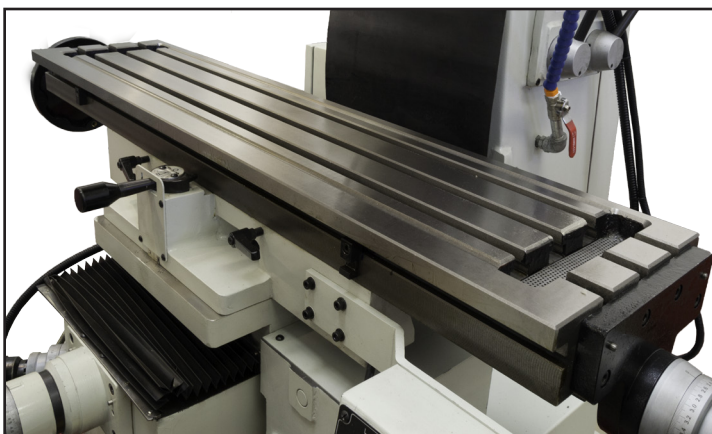
SURFACE GRINDER	RECTIFICADORA	RETIFICA	UNIT	PFG-3060AH	PFG-4080AH
Table surface	Superficie de la mesa	Superfície da mesa	mm	300 x 600	400 x 800
Grinding surface	Superficie de rectificado	Superfície maxima refinável	mm	300 x 600	400 x 800
Dist. center of spindle to table	Distancia del husillo a la mesa	Distância do árvore à mesa	mm	500	550
Rapid power cross feed	Avance transversal rápido	Avanço transversal rápido	mm/min	900 (50Hz)	900 (50Hz)
Cross feed on hand wheel	Desplazamiento transversal manual	Deslocamento transversal manual	mm	5/rev. ; 0.02/gra.	5/rev. ; 0.02/gra.
Main motor power	Potencia del motor principal	Potência motor principal	kW	3,5	3,5





MILLING MACHINE	FRESADORAS	FRESADORAS	UNIT	4VS	VH-3
Table surface	Superficie de la mesa	Superfície da mesa	mm	1370 x 245	1100 x 250
Axes travel: X / Y / Z	Carrera eje X, Y, Z	Curso eixo X, Y, Z	mm	920 - 400 - 420	700 - 250 - 440
Vertical spindle: Spindle nose	Nariz de husillo vertical	Cone do fuso		ISO 40	ISO 40
Vertical spindle: Range of speed	Rangos de velocidad del husillo vertical	Rangos de velocidade do fuso vertical	rpm	60 - 3800	65 - 3165
Motor power vertical spindle	Motor del husillo vertical	Motor do fuso vertical	kW	3,5	3,5
Horizontal spindle: Motor power	Motor del husillo horizontal	Motor do fuso horizontal	kW	-	2
Horizontal spindle: Spindle nose	Nariz del husillo horizontal	Nariz do fuso horizontal		-	ISO 40
Horizontal spindle: Range speed	Rango de velocidades del husillo vertical	Rangos de velocidade do fuso vertical	rpm	-	40 - 1180
Horizontal spindle: Distance to table	Distancia del husillo vertical a la mesa	Dtsância do fuso vertical à mesa	mm	-	120 - 380

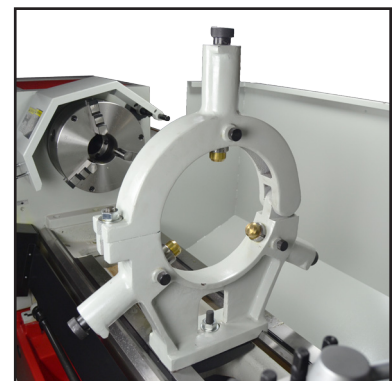
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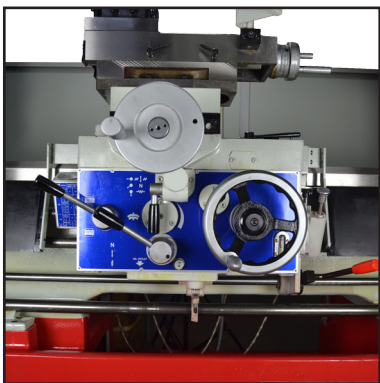
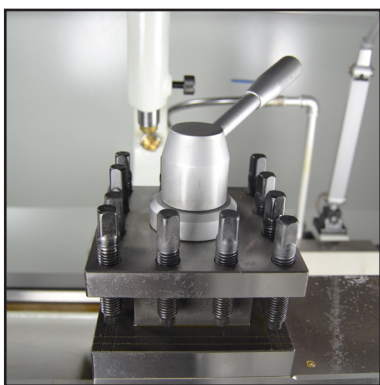
CONVENTIONAL LATHES	TORNO CONVENCIONALES	TORNO CONVENCIONAIS
Spindle bore	Diam. Agujero del husillo	Diâmetro do mangote
Speed ranges	Rangos de velocidad	Rangos de velocidade
Distance between centers	Distancia entre centros	Distância entre centros
Swing over bed	Volteo sobre bancada	Diâm. sobre o barramento
Swing over cross slide	Volteo sobre carro transversal	Comprimento útil da cava
Swing over gap	Volteo sobre escote	Diâmetro admissível na cava
Main motor	Motor principal	Motor Principal

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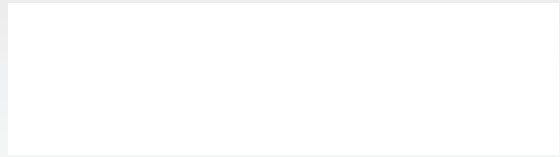
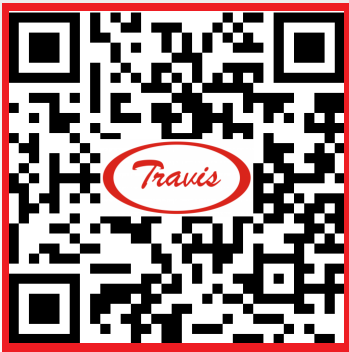




UNIT	T-1740	T-2260	T-2680	T-26120	T-33120	T-33160
mm	58	85	85	85	120	120
rpm	20 - 2000	15 - 1500	15 - 1500	15 - 1500	10 - 1000	10 - 1000
mm	1000	1500	2000	3300	3300	4300
mm	430	560	660	660	830	830
mm	240	340	440	440	610	610
mm	650	788	890	890	1060	1060
kW	3,5	5,5	7,5	7,5	7,5	7,5



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