SERRMAC



R
TCS

ITA/ENG

TRAPANI FRESA
Drilling-Milling Machines

SERIE R
32 40 45

La Serie R rappresenta la gamma di trapani a colonna professionali Serrmac progettata per rispondere alle esigenze di officine e reparti produttivi che richiedono solidità e continuità di prestazioni

I modelli R40 e R45, a differenza del R32, che utilizza la tavola a croce solo per il posizionamento, sono veri trapani-fresa. Grazie al pratico sistema di ancoraggio a vite (M60x2,5) presente sul naso mandrino, è possibile combinare operazioni di foratura e fresatura leggera, offrendo la massima versatilità nelle applicazioni produttive.

The R Series represents Serrmac's range of professional column drilling machines, designed to meet the needs of workshops and production departments requiring solidity and consistent performance.

Unlike the R32, which uses the cross table only for positioning, the R40 and R45 models are true drill-milling machines. Thanks to the practical screw anchoring system (M60x2.5) on the spindle nose, it is possible to combine drilling and light milling operations, offering maximum versatility in production applications.



R32



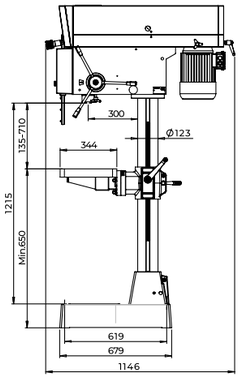
R40

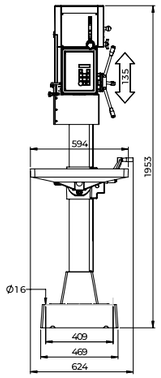


R45

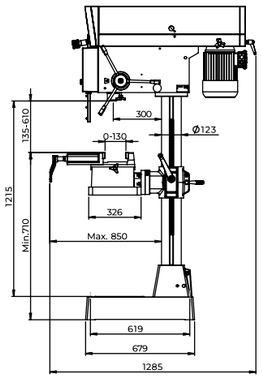
R32
R32E

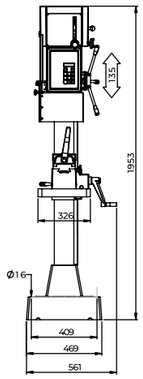
COLONNA PG / COLUMN PG



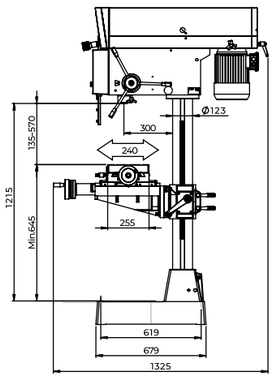


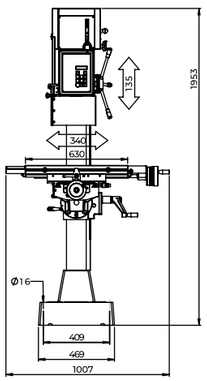
COLONNA PGM / COLUMN PGM





COLONNA TC / COLUMN TC



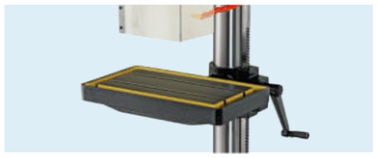




Configurazioni base
Basic configurations

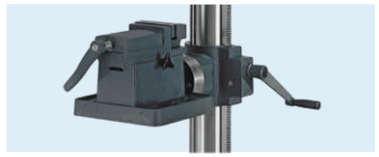
- Motori a 2 velocità
  2 speeds motor
- Interfaccia a membrana
  Membrane interface
- Illuminazione LED 24V
  LED Lighting 24V
- Filettatura (R32E)
  Thread-cutting (R32E)
- Contagiri digitale per mandrino (R32E)
  Display with digital speed counter (R32E)

Scelta del piano Choice of plan	R32		
	Pulegge (PU)	Var. Semplice (VS)	Var. Elettronico (E)
Piano Girevole *Tilting table (**PG**)*	cod. 3006	cod. 3016	cod. 3026
Piano Girevole Morsa *Tilting table and vice bench (**PGM**)*	cod. 3004	cod. 3014	cod. 3024
Tavola a croce *Cross table column (**TC**)*	cod. 3008	cod. 3018	cod. 3028



PG 600x345mm

14 / 25 Interasse cave a T 125mm
T-slot center distance 125mm



PGM 325x325mm

14 / 25 Interasse cave a T 125mm
T-slot center distance 125mm



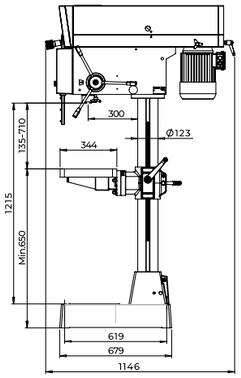
TC 630x255mm

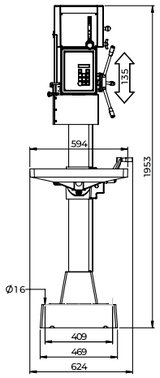
14 / 25 Interasse cave a T 80x3mm
T-slot center distance 80x3mm

Dati tecnici Technical data		R32		
Foratura su acciaio ~ *Steel drilling*	mm	Ø 32		
Maschiatura ~ *Tapping*		M20		
Attacco cono ~ *Cone attachment*		CM3		
Diametro colonna ~ *Column diameter*	mm	123		
Corsa del mandrino ~ *Spindle travel*	mm	135		
Trasmissione ~ *Transmission*		Pulegge (PU)	Var. Semplice (VS)	Var. Elettronico (E)
N. velocità ~ *Speed NO.*		10	Variabile	Variabile
N. Giri ~ *No. of turns*	rpm	100 - 2200	100 - 1640	125 - 2400
Potenza motore ~ *Engine power*	kW	1,1 - 1,84		2,2
Alimentazione ~ *Power supply*	V	400v 3~		
Peso ~ *Weight*	Kg	370		

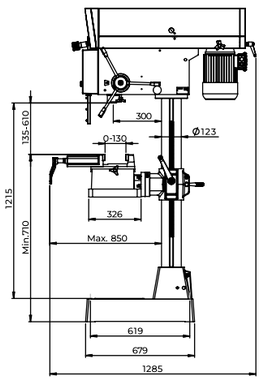
R40
R40E

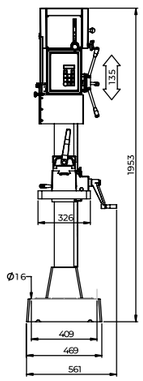
COLONNA PG / COLUMN PG



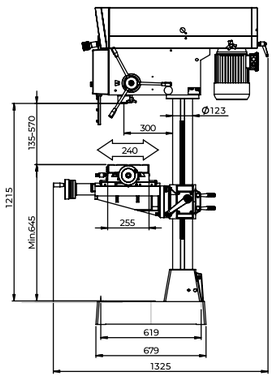


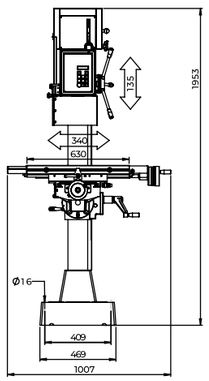
COLONNA PGM / COLUMN PGM

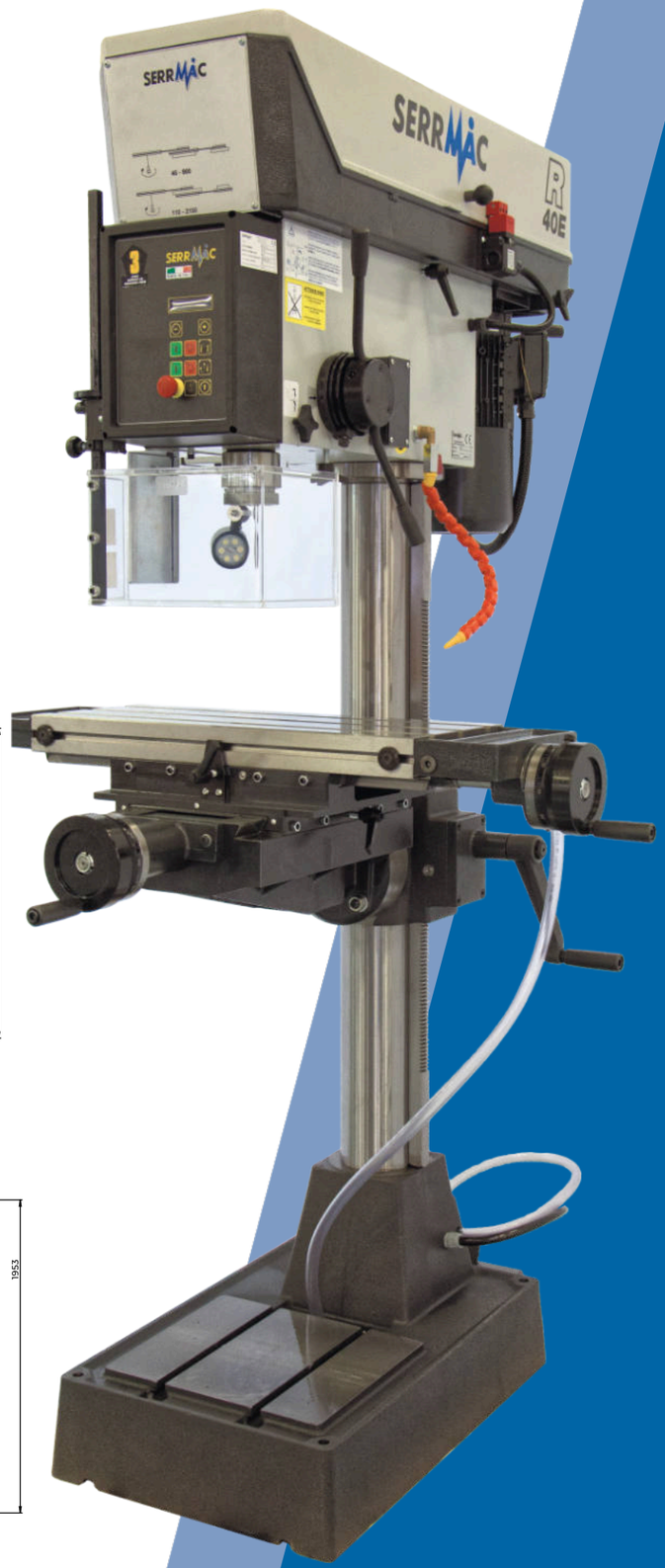




COLONNA TC / COLUMN TC



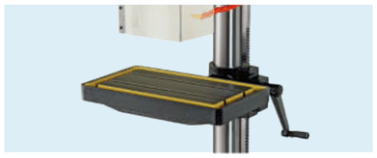




Configurazioni base
Basic configurations

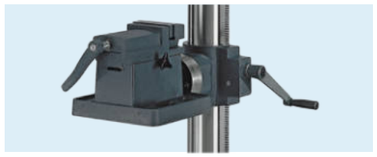
- Motori a 2 velocità
  2 speeds motor
- Interfaccia a membrana
  Membrane interface
- Illuminazione LED 24V
  LED Lighting 24V
- Filettatura (R40E)
  Thread-cutting (R40E)
- Discesa mandrino micrometrica manuale (su tavola a croce TC)
  Handwheel for micrometrical manual quill-feed (on TC Cross Table)
- Contagiri digitale per mandrino (R45E)
  Display with digital speed counter (R45E)

Scelta del piano Choice of plan	R40			
	Pulegge (PU)	Var. Semplice (VS)	Variatore ritardo (VR)	Variatore elettronico (E)
Piano Girevole *Tilting table (**PG**)*	cod. 3606	cod. 3616	cod. 3626	cod. 3646
Piano Girevole Morsa *Tilting table and vice bench (**PGM**)*	cod. 3604	cod. 3614	cod. 3624	cod. 3644
Tavola a croce *Cross table column (**TC**)*	cod. 3608	cod. 3618	cod. 3628	cod. 3648



PG 600x345mm

14 / 25 Interasse cave a T 125mm
T-slot center distance 125mm



PGM 325x325mm

14 / 25 Interasse cave a T 125mm
T-slot center distance 125mm



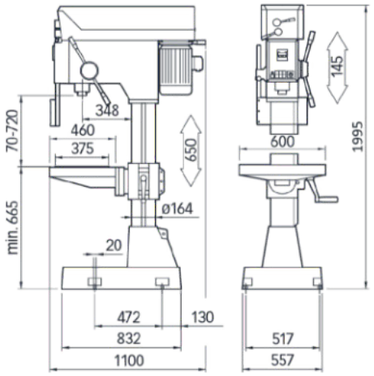
TC 630x255mm

14 / 25 Interasse cave a T 80x3mm
T-slot center distance 80x3mm

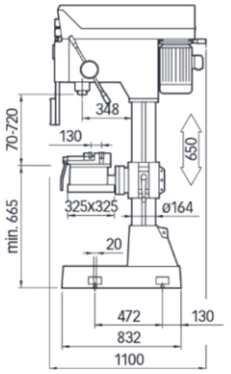
Dati tecnici Technical data		R40			
Foratura su acciaio ~ *Steel drilling*	mm	Ø40			
Maschiatura ~ *Tapping*		M24			
Attacco cono ~ *Cone attachment*		CM4			
Diametro colonna ~ *Column diameter*	mm	123			
Corsa del mandrino ~ *Spindle travel*	mm	135			
Trasmissione ~ *Transmission*		Pulegge (PU)	Var. Semplice (VS)	Variatore ritardo (VR)	Var. Elettronico (E)
N. velocità ~ *Speed NO.*		10	Variabile		
N. Giri ~ *No. of turns*	rpm	100 - 2200	120 - 1640	40 - 2380	45 - 2150
Potenza motore ~ *Engine power*	kW	1,1 - 1,84			2,2
Alimentazione ~ *Power supply*	V	400v 3~			
Peso ~ *Weight*	Kg	410			

R45
R45E

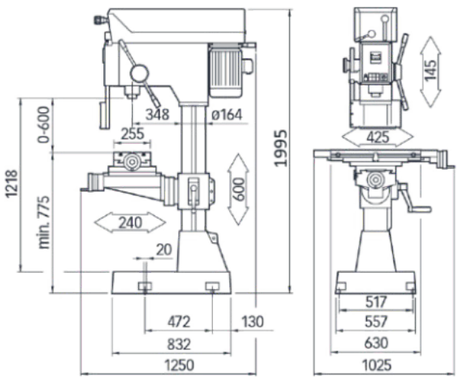
COLONNA PG / COLUMN PG



COLONNA PGM / COLUMN PGM



COLONNA TC / COLUMN TC

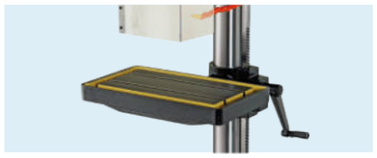




Configurazioni base
Basic configurations

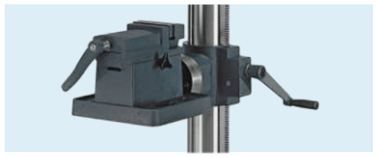
- Motori a 2 velocità
  2 speeds motor
- Interfaccia a membrana
  Membrane interface
- Illuminazione LED 24V
  LED Lighting 24V
- Filettatura (R45E)
  Thread-cutting (R45E)
- Discesa mandrino micrometrica manuale
  Handwheel for micrometrical manual quill-feed
- Discesa mandrino automatica meccanica (0,05-0,1-0,2)
  Automatic mechanic quill-feed (0.05 - 0.1 - 0.2)
- Impianto di refrigerazione utensile
  Cooling equipment
- Contagiri digitale per mandrino (R45E)
  Display with digital speed counter (R45E)

Scelta del piano Choice of plan	R45		
	Var. Semplice (VS)	Variatore ritardo (VR)	Variatore elettronico (E)
Piano Girevole *Tilting table (**PG**)*	cod. 4021	cod. 4029	cod. 4200
Piano Girevole Morsa *Tilting table and vice bench (**PGM**)*	cod. 4022	cod. 4030	cod. 4201
Tavola a croce *Cross table column (**TC**)*	cod. 4023	cod. 4031	cod. 4202



PG 600x345mm

14 / 25 Interasse cave a T 125mm
T-slot center distance 125mm



PGM 325x325mm

14 / 25 Interasse cave a T 125mm
T-slot center distance 125mm



TC 630x255mm

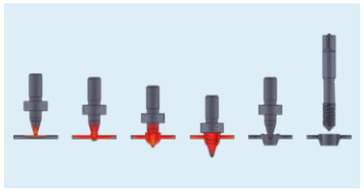
14 / 25 Interasse cave a T 80x3mm
T-slot center distance 80x3mm

Dati tecnici Technical data		R45		
Foratura su acciaio ~ *Steel drilling*	mm	Ø45		
Maschiatura ~ *Tapping*		M26		
Attacco cono ~ *Cone attachment*		CM4 / ISO40 opt		
Diametro colonna ~ *Column diameter*	mm	164		
Corsa del mandrino ~ *Spindle travel*	mm	145		
Trasmissione ~ *Transmission*		Var. Semplice (VS)	Variatore ritardo (VR)	Var. Elettronico (E)
N. velocità ~ *Speed NO.*		Variabile		
N. Giri ~ *No. of turns*	rpm	100 - 1620	40 - 2340	45 - 2150
Potenza motore ~ *Engine power*	kW	2,2 - 3		3
Alimentazione ~ *Power supply*	V	400v 3~		
Peso ~ *Weight*	Kg	548 PGM – TR / 610 TC		

Opzioni
Options

R

Opzioni compatibili con tutta la serie R Options compatible with the entire R series	COD
Discesa mandrino automatica UR80E *UR80E automatic spindle descent*	30020
Avanzamento rapido verticale tavola per R40 Tavola Croce (TC) *Vertical rapid traverse table for R40 Cross Table (TC)*	40006
Pistone di bilanciamento per testa a fusi multipli con peso maggiore di 3 kg *Balancing piston for multi-spindle head with weight greater than 3 kg*	40011
Visualizzatore di quote con risoluzione centesimale Asse X Asse Y (solo TC) con programmazione cicli *Quota viewer with centesimal resolution X-axis - Y-axis (TC only) with cycle programming*	40025*
Avanzamento automatico longitudinale meccanico (asse X) (solo TC) *Mechanical automatic longitudinal feed (X-axis) (TC only)*	40026
Visualizzatore di quote con risoluzione centesimale Asse Z con azzeramento parziale della quota *Quota viewer with centesimal resolution Z axis with partial quota reset*	40028*
Visualizzatore di quote con risoluzione centesimale sui 3 assi per tavola a croce (TC) con programmazione cicli *Quota viewer with centesimal resolution on the 3 axes for cross table (TC) with cycle programming*	40029*
Impianto elettrico per tensioni diverse da 230/400V 50Hz *Electrical system for voltages other than 230/400V 50Hz*	40032
Fermo meccanico di precisione *Precision mechanical stop*	40038



Predisposizione per Flowdrill mediante configurazione dedicata a cura del nostro reparto tecnico.

Flowdrill-ready, with dedicated configuration provided by our technical team.

**Con l'acquisto dell'impianto di refrigerazione utensile (cod. 30001) si consiglia vivamente di abbinare anche la vasca raccogli trucioli (cod. 5300192).

***When purchasing the tool cooling system (code 30001), it is strongly recommended to also purchase the chip collection tank (code 5300192).*



Opzioni
Options

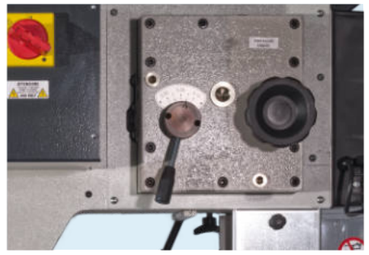
Opzioni Options **R**	COD	R32			R40				R45		
		PU	VS	E	PU	VS	VR	E	VS	VR	E
Impianto di refrigerazione utensile *Tool cooling system*	30001**	O	O	O	O	O	O	O	STD	STD	STD
Discesa mandrino automatica meccanica (0,05 - 0,1 - 0,2) Compresa discesa micrometrica manuale *Automatic mechanical spindle descent (0.05 - 0.1 - 0.2) including manual micrometric descent*	30003	O	O	O	O	O	O	O	STD	STD	STD
Giri Mandrino RPM maggiorati *Increased spindle speed RPM*	30010		O			O			O		
Colonna prolungata L = 200mm *Extended column L = 200mm*	30016	O	O	O	O	O	O	O			
Discesa mandrino micrometrica manuale *Manual micrometric spindle descent*	30017	O	O	O	O	O	O	O	STD	STD	STD
Filettatura *Thread cutting*	40002	O	O	STD	O	O	O	STD	O	O	STD
Asse Mandrino cono ISO40 e Tirante *Spindle shaft with ISO40 cone and tie rod*	40020								O	O	O
Contagiri digitale per mandrino con VS e VR *Digital tachometer for spindle with VS and VR*	40024		O			O	O		O	O	
Colonna prolungata L = 200mm *Extended column L = 200mm*	40084								O	O	O
Sgancio utensile pneumatico ISO40 - DIN 2080 + Asse Mandrino cono ISO40 e Tirante *ISO40 pneumatic tool release DIN 2080 + ISO40 cone spindle axis and tie rod*	40098								O	O	O
Vasca raccolta trucioli e gocce dell'impianto refrigerante *Tray for collecting chips and drops from the cooling system*	5300192**	O	O	O	O	O	O	O			
Vasca raccolta trucioli e gocce dell'impianto refrigerante *Tray for collecting chips and drops from the cooling system*	5356360**								O	O	O

*Con l'acquisto di una o più delle seguenti opzioni: 40028, 40025, 40029 viene incluso il nuovo pannello di controllo.

**With the purchase of one or more of the following options: 40028, 40025, 40029, the new control panel is included.*

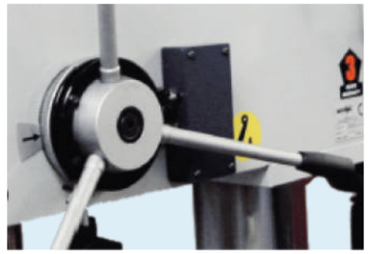


Opzioni
Options

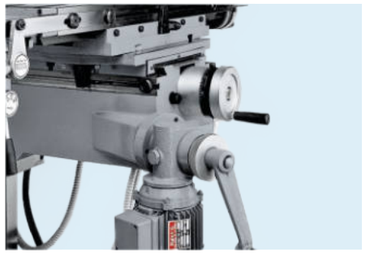


Cod. 30003





Cod. 40002



Cod. 40006



Cod. 40038



Cod. 400098



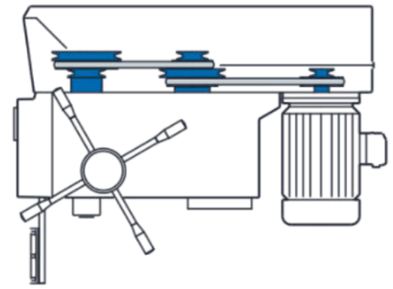
Cod. 40026



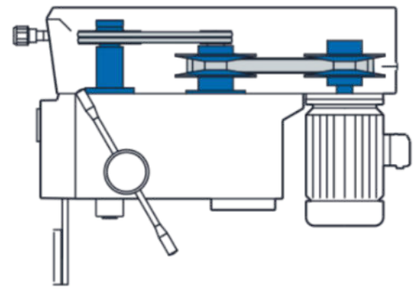
Cod. 40020

R

Trasmissioni
Transmissions

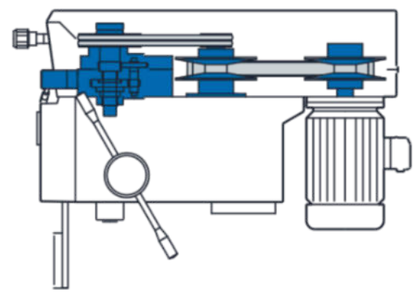


PU (R32 - R40 - R40E)
Pulegge a gradini
Stepped pulleys



VS (R32 - R40 - R45)
Variatore semplice
Variable speed drive unit





VR (R40 - R45)
Variatore ritardo
Variable speed-drive unit with gear box

TRAPANI FRESA

Drilling-Milling Machines

SERIE TCS

La Serie TCS rappresenta una linea di trapani fresa progettata per rispondere alle esigenze di lavorazioni gravose e di alta precisione.

Caratterizzata da una struttura estremamente robusta e da una colonna a sezione prismatica, offre eccellente stabilità e riduzione delle vibrazioni, rendendola ideale anche per operazioni di fresatura impegnative.

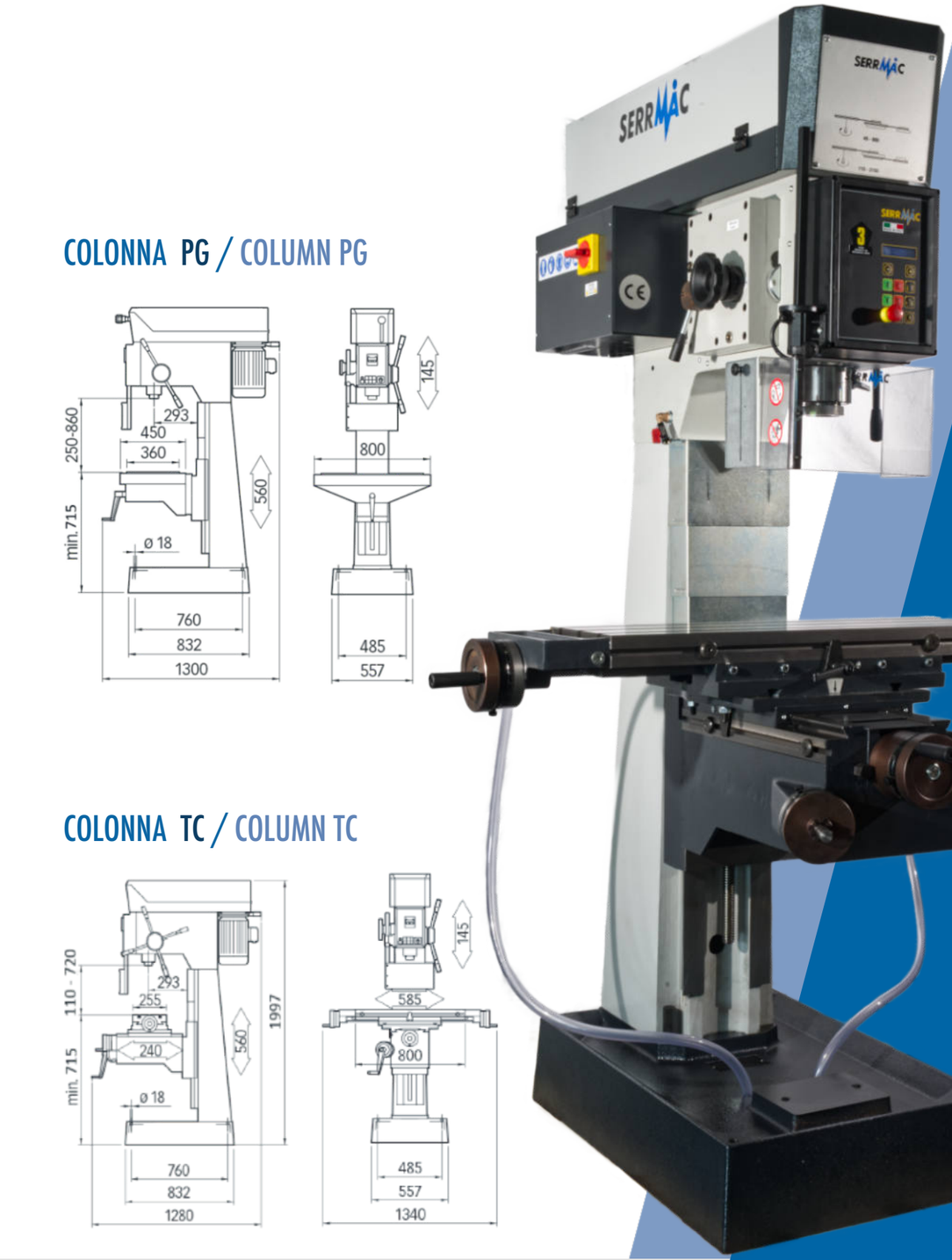
The TCS Series is a line of drilling and milling machines designed to meet the demands of heavy duty and high precision machining.

Featuring an extremely robust structure and a prismatic column, it ensures excellent stability and vibration reduction, making it ideal even for demanding milling operations.



TCS

TCS
TCSE



COLONNA PG / COLUMN PG

COLONNA TC / COLUMN TC

Configurazioni base
Basic configurations

- Interfaccia a membrana
  Membrane interface
- Contagiri digitale
  Digital display to view the spindle speed
- Illuminazione LED 24V
  LED Lighting 24V
- Discesa mandrino micrometrica manuale
  Handwheel for micrometrical manual quill-feed
- Discesa mandrino automatica meccanica (0,05-0,1-0,2)
  Automatic mechanic quill-feed (0.05 - 0.1 - 0.2)
- Impianto di refrigerazione utensile
  Cooling equipment
- Maschiatura con regolazione della profondità di lavoro (TCSE)
  Tapping with working depth adjustment (TCSE)

Scelta del piano Choice of plan	TCS		
	Var. Semplice (VS)	Variatore ritardo (VR)	Variatore elettronico (E)
Piano Girevole *Tilting table (**PG**)*	cod. 4048	cod. 4054	cod. 4210
Tavola a croce *Cross table column (**TC**)*	cod. 4049	cod. 4055	cod. 4211



TR 600x345mm

14
25
Interasse cave a T 125mm
T-slot center distance 125mm

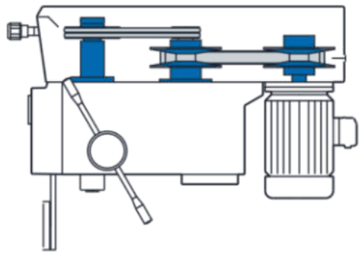


TC 800x255mm

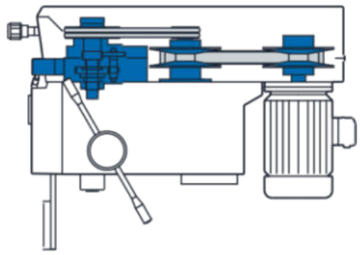
14
25
Interasse cave a T 80x3mm
T-slot center distance 80x3mm

Dati tecnici Technical data		TCS		
Foratura su acciaio ~ *Steel drilling*	mm	Ø50		
Maschiatura ~ *Tapping*		M26		
Attacco cono ~ *Cone attachment*		CM4 / ISO40 opt		
Diametro colonna ~ *Column diameter*		Prismatica		
Corsa del mandrino ~ *Spindle travel*	mm	145		
Trasmissione ~ *Transmission*		Var. Semplice (VS)	Variatore ritardo (VR)	Var. Elettronico
N. velocità ~ *Speed NO.*		Variabile		
N. Giri ~ *No. of turns*	rpm	100 - 1620	40 - 2340	45 - 2150
Potenza motore ~ *Engine power*	kW	2,2 - 3		3
Alimentazione ~ *Power supply*	V	400v 3~		
Peso ~ *Weight*	Kg	780		

Trasmissioni
Transmissions

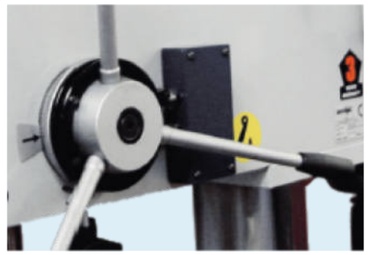


VS
Variatore semplice
Variable speed drive unit

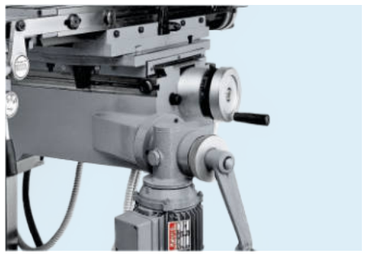


VR
Variatore ritardo
Variable speed-drive unit with gear box

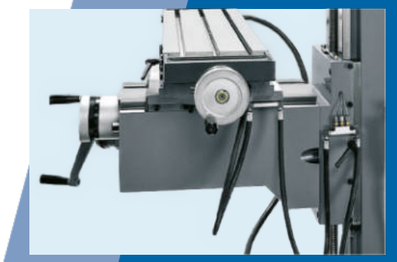
Opzioni Options



Cod. 40002



Cod. 40006



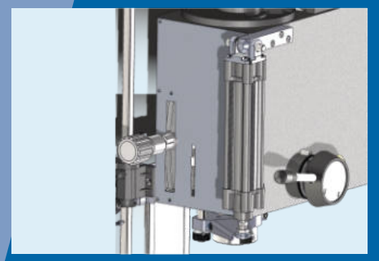
Cod. 40007



Cod. 40038



Cod. 400098



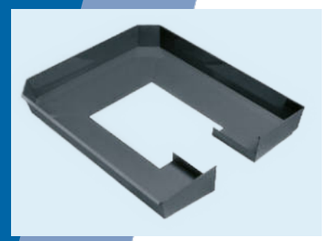
Cod. 40011

Opzioni Options **TCS**	**COD**
Asse Mandrino cono ISO40 e Tirante *Spindle shaft with ISO40 cone and tie rod*	40020
Sgancio utensile pneumatico ISO40 - DIN 2080 + Asse Mandrino cono ISO40 e Tirante *ISO40 pneumatic tool release DIN 2080 + ISO40 cone spindle axis and tie rod*	40098
Avanzamento automatico longitudinale meccanico (asse X) (solo TC) *Mechanical automatic longitudinal feed (X-axis) (TC only)*	40026
Avanzamento rapido verticale tavola Tavola Croce (TC) *Vertical rapid traverse table for R40 Cross Table (TC)*	40006
Colonna prolungata L = 200mm *Extended column L = 200mm*	40085
Discesa mandrino automatica UR80E *UR80E automatic spindle descent*	30020
Fermo meccanico di precisione *Precision mechanical stop*	40038
Filettatura *Thread cutting*	40002
Impianto centralizzato lubrificazione guide *Centralized guide lubrication system*	40007
Impianto elettrico per tensioni diverse da 230/400V 50Hz *Electrical system for voltages other than 230/400V 50Hz*	40032
Pistone di bilanciamento per testa a fusi multipli con peso maggiore di 3 kg *Balancing piston for multi-spindle head with weight greater than 3 kg*	40011
Vasca raccolta trucioli e gocce dell'impianto refrigerante *Tray for collecting chips and drops from the cooling system*	5355351**
Vaschetta su tavola croce *Tray on cross table*	22130100
Visualizzatore di quote con risoluzione centesimale Asse Z con azzeramento parziale della quota *Quota viewer with centesimal resolution Z axis with partial quota reset*	40028*
Visualizzatore di quote con risoluzione centesimale Asse X Asse Y (solo TC) con programmazione cicli *Quota viewer with centesimal resolution X-axis - Y-axis (TC only) with cycle programming*	40025*
Visualizzatore di quote con risoluzione centesimale sui 3 assi per tavola a croce (TC) con programmazione cicli *Quota viewer with centesimal resolution on the 3 axes for cross table (TC) with cycle programming*	40029*
Supporto telescopico (solo TC) *elescopic support (only TC)*	40008

*Con l'acquisto di una o più delle seguenti opzioni: 40028, 40025, 40029 viene incluso il nuovo pannello di controllo.

**With the purchase of one or more of the following options: 40028, 40025, 40029, the new control panel is included.*





Si consiglia vivamente di abbinare anche la vasca raccogli trucioli cod. 5355351.

It is strongly recommended to also purchase the chip collection tank code 5355351.

Serrmac International S.r.l.
via delle Industrie, 9
33070 Polcenigo (PN), Italy
www.serrmac.it - info@serrmac.it