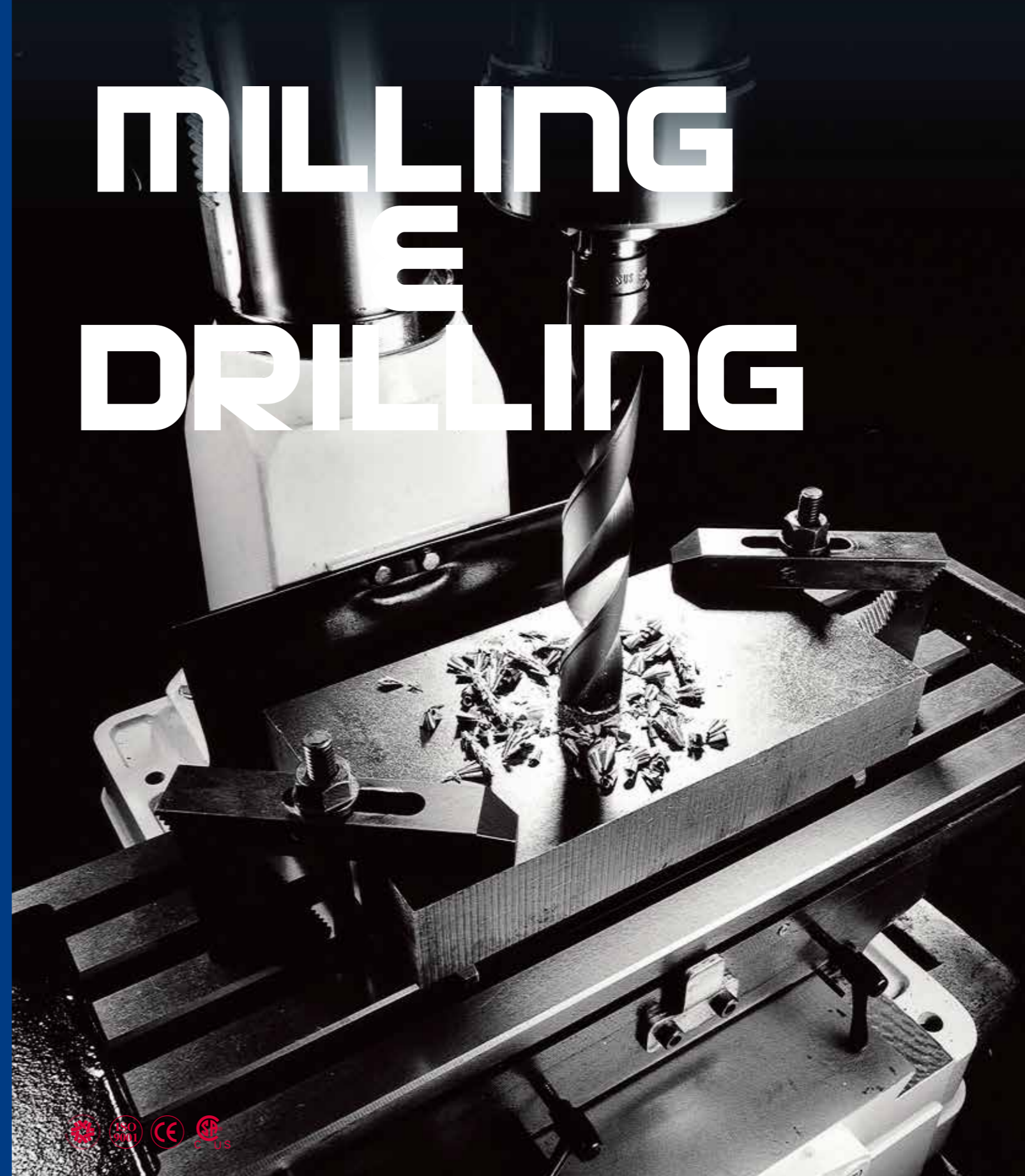




MILLING & DRILLING



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MD-3 08.2015.1000E



Milling & Drilling Series



Company Profile

Founded in 1975, Taiwan Rong Fu has grown in both size and capability from its original workforce of 10 people to its present modern facilities. From the beginning, Rong Fu has always followed its manufacturing new products with maximum dependability of quality to fully satisfy customers' requirement. Taiwan Rong Fu is an ISO 9001 certified company with products meet UL, CSA and CE standards. At Rong Fu, our capabilities not only provide OEM business with European manufacturers, but also manufacture customized machines.

BELT TYPE

RF-25

WORKING CAPACITY

In Mild Steel	Drilling	25mm (1")
	Face Mill	76mm (3")
	End Mill	20mm (3/4")
(Optional)	Tapping	16mm (5/8")
In Light Alloy		25mm (1")



Stand is optional

RF-31 RF-31N2F

Spindle Power Down Feed 0.12 - 0.18 - 0.25mm per / rev.

WORKING CAPACITY

In Mild Steel	Drilling	32mm (1 1/4")
	Face Mill	76mm (3")
	End Mill	20mm (3/4")
(Optional)	Tapping	16mm (5/8")
In Light Alloy		32mm (1 1/4")



Optional "V"-Variable speed model:
with AC inverter (60HZ 1750 rpm)
(Available for tapping in single phase)
RF-31V / VN2F



RF-31N2F

Stand is optional



RF-31

Stand is optional

Item	Unit	RF-25
Main Motor	HP	3/4
Speed	1 Speed Motor (standard)	rpm 60HZ / 110-2580 (12 speeds)
		rpm 50HZ / 90-2150 (12 speeds)
Taper		MT3 or R8
Stroke	mm	95
Depth	mm	170
Table Size	mm	585 x 190
X Travel	mm	380
Y Travel	mm	150
Column Diameter	mm	Ø92
No. of T Slot		4
T Slot Size	mm	14 x 24
Packing Dimensions	mm (L x W x H)	740 x 710 x 995 (w/o stand)
Machine Weight	NW/GW	160 / 190 kgs
		355 / 420 lbs
No. of Machines Packed in 20" container	20'	48 sets (w / o stand)

Item	Unit	RF-31	RF-31N2F
Main Motor	HP	1.5	1.5
Speed	1 Speed Motor (standard)	rpm 60HZ / 150-3000	60HZ / 150-3000
		50HZ / 125-2500 (12 speeds)	50HZ / 125-2500 (12 speeds)
	2 Speed Motor (optional)	rpm 60HZ / 75-3000	60HZ / 75-3000
		50HZ / 62-2500 (23 speeds)	50HZ / 62-2500 (23 speeds)
Taper		MT3 or R8	MT3 or R8
Stroke	mm	130	107
Depth	mm	205	205
Table Size	mm	730 x 210	730 x 210
X Travel	mm	460	460
Y Travel	mm	190	190
Column Diameter	mm	Ø115	Ø115
No. of T Slot		4	4
T Slot Size	mm	16 x 26	16 x 26
Packing Dimensions	mm (L x W x H)	810 x 740 x 1150 (w/o stand)	810 x 740 x 1150 (w/o stand)
Machine Weight	NW/GW	230 / 255 kgs	230 / 255 kgs
		505 / 560 lbs	505 / 560 lbs
No. of Machines Packed in 20" container	20'	42 sets (w / o stand)	42 sets (w / o stand)

BELT TYPE

RF-400HC / 400HS RF-400C2F / 400S2F

HS = Square Table
 HC = Cross Table
 S2F = Square Table + Spindle Power Down Feed
 0.12 – 0.18 – 0.25 mm per/rev.
 C2F = Cross Table + Spindle Power Down Feed
 0.12 – 0.18 – 0.25 mm per/rev.

WORKING CAPACITY		
In Mild Steel	Drilling	32mm (1 1/4")
	Face Mill	76mm (3")
	End Mill	20mm (3/4")
(Optional)	Tapping	16mm (5/8")
In Light Alloy		32mm (1 1/4")



Optional "V"-Variable speed model: with AC inverter (60HZ 1750 rpm) (Available for tapping in single phase)



Optional swivel vise table



RF-400 HC



Square table

RF-400 S2F

RF-19

20" 12 Speed

RF-19v

20" Inverter Variable Speed

WORKING CAPACITY		
In Mild Steel	Drilling	28mm (1 1/8")
	Tapping (Optional)	16mm (5/8")



LED spindle rpm readout



Swivel vise & table (Option)



Swivel vise & table (Option)



RF-19V
Variable speed



RF-19

Item	Unit	RF-400HC	RF-400HS	RF-400C2F	RF-400S2F	RF-19	RF-19V
Main Motor	HP	1.5				1 (1 or 3-Phase)	Main Motor 1HP (3-phase) PRW 110 or 220V (1-phase only)
Speed	1 Speed Motor (standard)	60Hz 150~3000 50Hz 125~2500 (12 speeds)				60Hz 140~2600 50Hz 115~2165	Low 0~385 Hi 385~2000
	2 Speed Motor (optional)	60Hz 75~3000 50Hz 62~2500 (24 speeds)					-
Taper		MT3 or R8					MT3
Stroke	mm	130		107		120	
Depth	mm	205				250	
Table Size	mm	585 x 190	555 x 495	585 x 190	555 x 495	420 x 470 300 x 350 (Optional swivel vise table)	
X Travel	mm	380				-	
Y Travel	mm	180				-	
Column Diameter	mm	Ø115				Ø100	
No. of T Slot		4	2	4	2	2	
T Slot Size	mm	14 x 24	16 x 26	14 x 24	16 x 26	14 x 24	
Packing Dimensions	mm (L x W x H)	830 x 740 x 1860	890 x 740 x 1740	830 x 740 x 1860	890 x 740 x 1740	905 x 740 x 1875	
Machine Weight	NW/GW	280 / 310 kgs 615 / 685 lbs	270 / 300 kgs 595 / 660 LBS	295 / 325 kgs 650 / 715 lbs	285 / 315 kgs 630 / 695 lbs	200 / 230 kgs 440 / 505 lbs	
	No. of Machines Packed in 20" container	21 sets	18sets	21 sets	18sets	18 sets	

GEAR HEAD TYPE

RF-40 RF-40N2F

Spindle Power Down Feed
0.12 – 0.18 – 0.25 mm per/rev

WORKING CAPACITY

In Mild Steel	Drilling	40mm (1 1/2")
	Face Mill	100mm (4")
	End Mill	20mm (3/4")
(Optional) In Light Alloy	Tapping	20mm (3/4")
		40mm (1 1/2")



Stand is optional



Multiple Head Work Station

RF-40HC / 40HS RF-40C2F / 40S2F

HS = Square Table

HC = Cross Table

S2F = Square Table + Spindle Power Down Feed
0.12 – 0.18 – 0.25 mm per/rev.

C2F = Cross Table + Spindle Power Down Feed
0.12 – 0.18 – 0.25 mm per/rev.

WORKING CAPACITY

In Mild Steel	Drilling	40mm (1 1/2")
	Face Mill	100mm (4")
	End Mill	20mm (3/4")
(Optional) In Light Alloy	Tapping	20mm (3/4")
		40mm (1 1/2")



Optional Swivel Vise Table



Cross Table

RF-40HC



Square table

RF-40S2F

Item	Unit	RF-40	RF-40N2F	RF-40HC	RF-40HS	RF-40C2F	RF-40S2F
Main Motor	HP	1 (3-Phase) / 1.5 (1-Phase)		1 (3-Phase) / 1.5 (1-Phase)			
Speed	1 Speed Motor (standard)	60Hz 65~1550 50Hz 55~1260 (6 speeds)		60Hz 65~1550 50Hz 55~1260 (6 speeds)			
	2 Speed Motor (optional)	60Hz 65~3100 50Hz 55~2520 (12 speeds)		60Hz 65~3100 50Hz 55~2520 (12 speeds)			
Taper		MT3 or R8		MT3 or R8			
Stroke	mm	130	107	130			107
Depth	mm	260		260			
Table Size	mm	730 x 210		585 x 190 (Cross Table)	555 x 495 (Square Table)	585 x 190 (Cross Table)	555 x 495 (Square Table)
X Travel	mm	460		380	-	380	-
Y Travel	mm	230		180	-	180	-
Column Diameter	mm	Ø115		Ø115			
No. of T Slot		4		4	2	4	2
T Slot Size	mm	16 x 26		14 x 24	16 x 26	14 x 24	16 x 26
Packing Dimensions	mm (L x W x H)	810 x 740 x 1150		830 x 740 x 1860			
Machine Weight	NW/GW	270 / 300 kgs 595 / 660 lbs		280 / 310 kgs 615 / 685 lbs	270 / 300 kgs 595 / 660 lbs	295 / 325 kgs 650 / 715 lbs	285 / 315 kgs 630 / 695 lbs
	No. of Machines Packed in 20' container	42 sets (w/o stand)		21 sets			

GEAR HEAD TYPE

RF-46SF

Heavy Duty Geared Head Spindle Power Down Feed
0.12 – 0.18 – 0.25mm per/rev
Hardened MT4 Spindle / Coolant Base

WORKING CAPACITY

In Mild Steel	Drilling	40mm (1 1/2")
	Face Mill	100mm (4")
	End Mill	25mm (1")
(Optional)	Tapping	22mm (7/8")
In Light Alloy		50mm (2")



Cross table (585 x 190 mm)
available for RF-46CF



RF-45 RF-45N2F

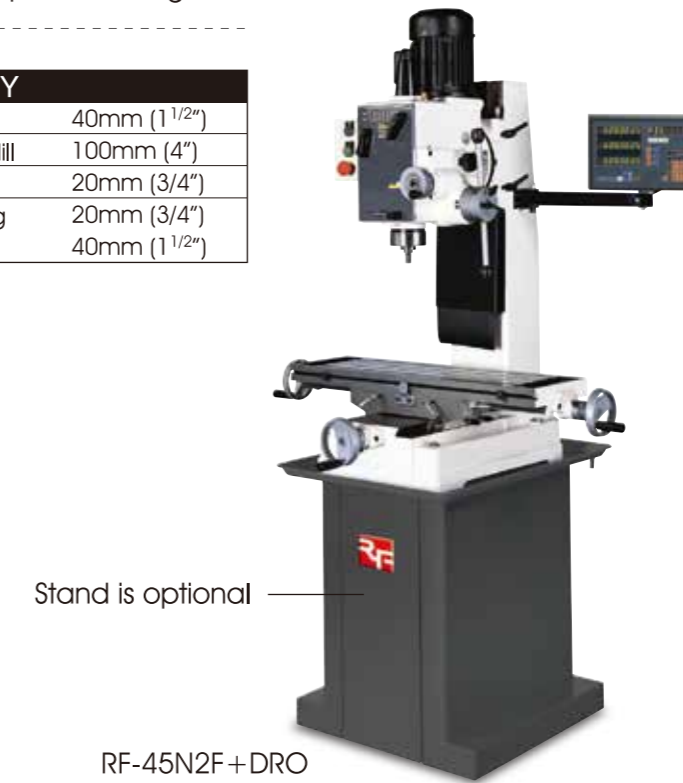
Spindle Power Down Feed
0.12 – 0.18 – 0.25mm per/rev

RF-45N2F+DRO (3 axis)

Spindle Power Down Feed
0.12 – 0.18 – 0.25mm per/rev + Digital Readout

WORKING CAPACITY

In Mild Steel	Drilling	40mm (1 1/2")
	Face Mill	100mm (4")
	End Mill	20mm (3/4")
(Optional)	Tapping	20mm (3/4")
In Light Alloy		40mm (1 1/2")



Stand is optional

RF-45N2F+DRO



Stand is optional

Item	Unit	RF-46SF	RF-45	RF-45N2F	RF-45N2F+DRO
Main Motor	HP	1.5		1 (3-Phase) / 1.5 (1-Phase)	
Speed	rpm	60Hz 65~1550		60Hz 65~1550	
		50Hz 55~1260 (6 speeds)		50Hz 55~1260 (6 speeds)	
Speed	rpm	60Hz 65~3100		60Hz 65~3100	
		50Hz 55~2520 (12 speeds)		50Hz 55~2520 (12 speeds)	
Taper		MT4		MT3 or R8	
Stroke	mm	107	130	107	130
Depth	mm	260		255	
Table Size	mm	555 x 495		820 x 240	
X Travel	mm	-		520	
Y Travel	mm	-		210	
Column Diameter	mm	Ø115		-	
No. T-slots		2		4	
Coolant Pump	mm	1/8HP		-	
Packing Dimensions	mm (L x W x H)	915 x 762 x 2083		915 x 737 x 1194	
Machine Weight	NW/GW	310 / 340 kgs		330 / 360 kgs	
		685 / 750 lbs		725 / 795 lbs	
No. of Machines Packed in 20" container	20'	18 sets		18 sets	



GEAR HEAD TYPE

RF-40VN2F

Variable Speed
Power Down Feed
0.12 – 0.18 – 0.25mm per/rev

WORKING CAPACITY

In Mild Steel	Drilling	40mm (1 1/2")
	Face Mill	100mm (4")
	End Mill	20mm (3/4")
(Optional)	Tapping	20mm (3/4")
In Light Alloy		40mm (1 1/2")



Variable speed model: with AC inverter (60HZ 1750 rpm)
(Available for tapping in single phase)

RF-45VN2F+DRO (3 axis)

Variable Speed
Table Power Feed (Optional)
0.12 – 0.18 – 0.25 mm per/rev

WORKING CAPACITY

In Mild Steel	Drilling	40mm (1 1/2")
	Face Mill	100mm (4")
	End Mill	20mm (3/4")
(Optional)	Tapping	20mm (3/4")
In Light Alloy		40mm (1 1/2")

Stand is optional



Stand is optional

RF-500s RF-500c

S=Square Table
C=Cross Table
Heavy Duty Geared Head Spindle Power Down Feed
0.1 – 0.2 – 0.3 – 0.4mm per/rev

WORKING CAPACITY

In Mild Steel	Drilling	50mm (2")
	Face Mill	100mm (4")
	End Mill	25mm (1")
(Optional)	Tapping	33mm (1 5/16")
In Light Alloy		50mm (1 1/2")



cross table



※ Equipped but not assemble motor while packaging

Item	Unit	RF-40VN2F	RF-45VN2F+DRO	RF-500S	RF-500C
Main Motor	HP	Motor 1.5HP (3-Phase) PRW 110V or 220V(1-Phase only)	Motor 1.5HP (3-Phase) PRW 110V or 220V(1-Phase only)	4 (3-Phase)	
Speed	rpm	0~2500	0~2500	60Hz 60~1810 50Hz 50~1510 (6 speeds)	
Taper		MT3 or R8 (Optional MT4)	MT3 or R8 (Optional MT4)	MT4	
Stroke	mm	107	107	200	
Depth	mm	260	255	340	
Table Size	mm	730 x 210	820 x 240	600 x 600	820 x 240 (Swivel)
X Travel	mm	460	520	-	460
Y Travel	mm	230	210	-	280
Column Diameter	mm	Ø115	-	Ø180	
No. of T Slot		4	4	2	4
T Slot Size	mm	16 x 26	16 x 26	22 x 35	16 x 26
Coolant Pump		-	-	1 / 8HP	
Packing Dimensions	mm (L x W x H)	810 x 740 x 1150	915 x 737 x 1194	1130 x 740 x 2210	1130 x 1120 x 2210
Machine Weight	NW/GW	270 / 300 kgs 595 / 660 lbs	330 / 360 kgs 725 / 795 lbs	750 / 800 kgs 1650 / 1760 lbs	
No. of Machines Packed in 20" container	20'	42 sets (w/o stand)	18 sets (w/o stand)	15 sets	10 sets (motor dismantled)



SCANDINAVIAN STYLE

RF-205s / 205sf RF-205c / 205cf

22" Drilling Machine

S = Square Table

C = Cross Table

SF = Square Table + Power Down Feed

0.08 – 0.12 – 0.16 – 0.22 mm per/rev.

CF = Cross Table + Power Down Feed

0.08 – 0.12 – 0.16 – 0.22 mm per/rev.



Cross Table



Square Table

RF-43s / 43c RF-43sf / 43cf

27.6" Drilling Machine

S = Square Table

C = Cross Table

SF = Square Table + Power Down Feed

0.08 – 0.12 – 0.16 – 0.22 mm per/rev.

CF = Cross Table + Power Down Feed

0.08 – 0.12 – 0.16 – 0.22 mm per/rev.



Cross Table



Square Table

Item	Unit	RF-205S	RF-205SF	RF-205C	RF-205CF	RF-43S	RF-43SF	RF-43C	RF-43CF
Main Motor	HP	1.5 (3-Phase)				2 (3-Phase)			
Speed	2 Speed Motor (standard) rpm	60Hz 90~3580 50Hz 75~3140				60Hz 90~3580 50Hz 75~3140			
Drilling Capacity	mm	32				32	36 (MT4)	32	36 (MT4)
Taper		MT3				MT3 (Optional MT4)			
Stroke	mm	150	107	150	107	150	107	150	107
Depth	mm	284				350			
Table Size	mm	505 x 405		585 x 190		505 x 405		600 x 300	
Column Diameter	mm	Ø100				Ø120			
Spindle Nose To Table	mm	915		780		950		800	
Spindle Nose To Base	mm	1262				1300			
Quill Diameter	mm	Ø62				Ø62			
No. of Power Down feed	mm	-	4 Step	-	4 Step	-	4 Step	-	4 Step
No. of T Slot		2		4		2		7	
T Slot Size	mm	16 x 26		14 x 24		16 x 26		14 x 24	
Packing Dimensions	mm (L x W x H)	1855 x 570 x 920		1855 x 805 x 1050		1895 x 550 x 950		1895 x 550 x 1010	
Machine Weight	NW/GW	220 / 230 kgs 440 / 505 lbs	215 / 245 kgs 475 / 540 lbs	230 / 260 kgs 505 / 575 lbs	245 / 275 kgs 540 / 605 lbs	240 / 270 kgs 530 / 595 lbs	255 / 285 kgs 560 / 630 lbs	260 / 290 kgs 575 / 640 lbs	275 / 305 kgs 605 / 670 lbs
No. of Machines Packed in 20" container	20'	24 sets		12 sets		24 sets			

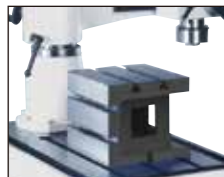
RADIAL DRILL

RF-35

Mini Radial Drill

WORKING CAPACITY

In Mild Steel	Drilling	32mm (1 1/4")
	Face Mill	76mm (3")
	End Mill	20mm (3/4")
(Optional) In Light Alloy	Tapping	16mm (5/8") 32mm (1 1/4")



Optional Accessories
Box Table for RF-35



Stand is Optional

RF-720A

Radial Drill

WORKING CAPACITY

Drilling	Steel	32mm (1 1/4")
	Cast iron	50mm (2")
Tapping (Optional)	Steel	25mm (1")
	Cast iron	32mm (1 1/4")



RF-720A

RF-1100

Radial Drill

WORKING CAPACITY

Drilling	Steel	42mm (1 2/3")
	Cast iron	55mm (2 3/16")
Tapping (Optional)	Steel	25mm (1")
	Cast iron	38mm (1 1/2")



RF-1100

Item	Unit	RF-35	RF-720A	RF-1100
Main Motor	HP	1.5	2	3HP (2 Speed motor)
Speed	1 Speed Motor (standard)	rpm 60Hz 340~3000 50Hz 300~2600	88~1500 (6 speeds)	-
	2 Speed Motor (optional)	rpm 60Hz 170~3000 50Hz 145~2600	-	44~1500 (12 speeds)
Taper		MT3	MT#4	MT#4
Stroke	mm	130	220	230
Travel of Spindle Head	mm	380	530	820
Dimension of Base	mm	-	1260 x 640 x 160	1275 x 715 x 180
Table Size	mm	550 x 500	-	-
Column Diameter	mm	Ø115	Ø210	Ø260
T-slots Size	mm	16 x 26	-	-
Cross Travel	mm	380	-	-
Packing Dimensions	mm (L x W x H)	610 x 890 x 160 (Machine) 965 x 800 x 203 (Stand)	1680 x 826 x 2160	1880 x 864 x 2210
		250 / 280 kgs (Machine) 35 / 36 kgs (Stand) 550 / 614 lbs	1120 / 1250 kgs 2469 / 2756 lbs	1800 / 1950 kgs 3968 / 4299 lbs
Machine Weight	NW/GW			
No. of Machines Packed in 20" container	20'	36 sets (with stand) / 52 sets (w / o stand)	-	-

STANDARD ACCESSORIES

40 / 45 / 46 / 500 Series

MODEL	RF-40 / 40N2F / RF-45 / 45N2F		RF-40HC / RF-40C2F		RF-40HS / RF-40S2F		RF-46SF / 500S	RF-500C
ACCESSORY	MT#3 / MT#4	R8	MT#3	R8	MT#3 / MT#4	R8	MT#4	MT#4
CHUCK ARBOR	✓	✓	✓	✓	✓	✓	✓	✓
HANDLE ROD	✓	✓	✓	✓	✓	✓	✓	✓
KNOB	✓	✓	✓	✓	✓	✓	✓	✓
PUNCH KEY	✓		✓		✓		✓	✓
LOCK HANDLE FOR HEAD BODY			✓	✓	✓	✓	✓	
HEAD HANDLE	✓	✓	✓	✓	✓	✓	✓	✓
TABLE HANDLE WHEEL	✓	✓	✓	✓				✓

25 / 31 / 400 Series

MODEL	RF-25 / RF-25V		RF-31 / 31N2F / 31V		RF-35		RF-400HC / 400C2F		RF-400HS / 400S2F	
ACCESSORY	MT3	R8	MT3	R8	MT3	R8	MT3	R8	MT3	R8
CHUCK ARBOR	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
CUTTING ARBOR	✓	✓	✓	✓			✓	✓		
HANDLE ROD	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
KNOB	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
PUNCH KEY	✓		✓		✓		✓		✓	
1/2" DRILL CHUCK	✓	✓	✓	✓	✓	✓				
TABLE HANDLE WHEEL	✓	✓	✓	✓			✓	✓		
HEAD HANDLE	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
3" FACE CUTTER	✓	✓	✓	✓						
3" U TYPE VISE	✓	✓	✓	✓						
LOCK HANDLE FOR HEAD BODY			✓	✓			✓	✓	✓	✓

RF-19 / 19V

STANDARD ACCESSORIES:

- MT#3 Spindle Taper
- Chuck Arbor
- Handle Rod
- Knob
- Punch Key
- 1/2" (13mm) Keyless Drill Chuck



Coolant System



Swivel Vise Table Ø100 m/m



Cross Table
Ø100 / Ø115 / Ø120 m/m

RF-205 / 43 Series

STANDARD ACCESSORIES:

- Table Handle Wheel for Cross Table
- Chuck Arbor
- Handle Rod

OPTIONAL ACCESSORIES



Deluxe Stand



Power Table Feed



Chuck Guard for Mill / Drill



Tapping Control



D.R.O. (Digital Readout)



Keyless Chuck

Basic & Optional Features

- Wide range of applications: Milling, Drilling, Boring, Reaming.
- Sturdy construction and not limited to skilled operators.
- Tilting head available for Geared Head models. (Figure A)
- Maxi Spindle stroke for spindle power down feed is 107mm.
- Spindle power down feed rate per/rev: 0.12 – 0.18 – 0.25mm for 31N2F, 40N2F, 40C2F, 40S2F, 45N2F, 46SF.
- Spindle power down feed rate per/rev: 0.1 – 0.2 – 0.3 – 0.4mm for RF-500S / 500C.
- Spindle Power down feed rate per/rev: 0.08 – 0.12 – 0.16 – 0.22mm for RF-43SF / 43CF / 205SF / 205CF.

Optional Features

- Single phase motor.
- CE standard.
- Tapping function.
- NT#30 spindle taper.
- MT#4 taper, drilling capacity 32~50mm.
- Extension Column 11" for 31, 31N2F, 40, 40N2F.
- 820 × 240mm large work table for 31, 31N2F, 40, 40N2F.



End Milling



Face Milling



Horizontal Slotting



Inclined Drilling



Tapping (Optional)



Figure A

