

**UNIVERSAL TILTING ROTARY TABLE**



VU150

ORDER CODE	TABLE SIZE	CENTRE HEIGHT	SLOT SIZE	SLOT TYPE	DESCRIPTION	GROSS WEIGHT
VU100	100mm	80mm	11mm		Universal Tilting Rotary Table	13.5kg
VU150	150mm	90mm	11mm		Universal Tilting Rotary Table	21kg
VU200	200mm	141mm	14mm		Universal Tilting Rotary Table	50kg
VU300	300mm	208mm	16mm		Universal Tilting Rotary Table	102kg

**UNIVERSAL TILTING ROTARY TABLE - HEAVY DUTY**



VUT10

ORDER CODE	TABLE SIZE	CENTRE HEIGHT	SLOT SIZE	SLOT TYPE	DESCRIPTION	GROSS WEIGHT
VUT10	250mm	150mm	12mm		Universal Tilting Rotary Table	74kg
VUT12	300mm	169mm	14mm		Universal Tilting Rotary Table	100kg

**HORIZONTAL / VERTICAL ROTARY TABLES**



HV6

ORDER CODE	TABLE SIZE	CENTRE HEIGHT	SLOT SIZE	SLOT TYPE	DESCRIPTION	GROSS WEIGHT
HV4	110mm	85mm	11mm		Horizontal / Vertical Rotary Table	7.5kg
HV6	150mm	100mm	11mm		Horizontal / Vertical Rotary Table	13kg
HV8	200mm	135mm	14mm		Horizontal / Vertical Rotary Table	28kg
HV10	250mm	165mm	14mm		Horizontal / Vertical Rotary Table	37kg
HV12	300mm	195mm	16mm		Horizontal / Vertical Rotary Table	62.5kg
HV14	350mm	230mm	16mm		Horizontal / Vertical Rotary Table	81kg
HV16	406mm	255mm	16mm		Horizontal / Vertical Rotary Table	122kg

**DIVIDING PLATES TO SUIT ROTARY TABLES**



DP2

**includes plate, crank handle, screws sector and U washer**

ORDER CODE	DESCRIPTION	TO SUIT ROTARY TABLE (SPACERS)
DP1	Dividing Plate Set	HV4, HV6, VU100, VU150
DP2	Dividing Plate Set	HV8, VU200
DP3	Dividing Plate Set	HV10, 12, 14, 16, VUT10,12
DP4	Dividing Plate Set	CS6 CS8 Indexing Spacers
DP5	Dividing Plate Set	VU300

**TAILSTOCKS (ADJUSTABLE)**



TS1

ORDER CODE	DESCRIPTION	ADJUSTABLE CENTRE HEIGHTS		TO SUIT MODELS
		highest	lowest	
TS1	Tailstock	110	80	HV4, HV6, VSI4, VSI5 BSO, VU100, VU150
TS2	Tailstock	145	115	BS1, CC6, CS6, HV8
TS3	Tailstock	200	130	CS8, HV10, HV12, CC8, VUT10, VUT12, VU200
TS4	Tailstock	260	190	HV14, HV16, VU300

**SUPER INDEXING SPACER**



CS6

**includes chuck, plate and spacers**

ORDER CODE	DIVIDING OPTIONS	CHUCK CAPACITY		CENTRE HEIGHT	PLATE DIA	DESCRIPTION	GROSS WT
		Inner Jaw	Outer Jaw				
CS6	2, 3, 4, 6, 8, 12, 24	4 to 42mm	10-156mm	123mm	203mm	Super Indexing Spacer	50kg
CS8	2, 3, 4, 6, 8, 12, 24	4 to 62mm	10-180mm	155mm	254mm	Super Indexing Spacer	79kg

**SIMPLE INDEXING SPACER**



CC6

ORDER CODE	DIVIDING OPTIONS	CHUCK CAPACITY		CENTRE HEIGHT (on side)	DESCRIPTION	GROSS WT
		Inner Jaw	Outer Jaw			
CC6	2, 3, 4, 6, 8, 12, 24	4 to 42mm	10-156mm	123mm	Simple Indexing Spacer	36kg
CC8	2, 3, 4, 6, 8, 12, 24	4 to 62mm	10-180mm	155mm	Simple Indexing Spacer	51kg
CC12	2, 3, 4, 6, 8, 12, 16, 24, 48	5 to 108mm	15-265mm	228mm	Simple Indexing Spacer	133kg

**RAPID INDEX WITH CHUCK**



VSI4

ORDER CODE	DIVIDING OPTIONS	CHUCK CAPACITY	CENTRE HEIGHT (on side)	DESCRIPTION	GROSS WT
VSI4	24	Ø3-100mm	80mm	Rapid Index with Chuck	10kg
VSI5	24	Ø3-100mm	87mm	Rapid Index with Chuck	14kg

**DIVIDING HEADS**



BSO

ORDER CODE	CENTRE HEIGHT	TAPER of CENTRE	DESCRIPTION	GROSS WEIGHT
BSO	100mm	MT2	Dividing Head - includes tailstock and plates	20kg
BS1	128mm	MT3	Dividing Head - includes tailstock and plates	33kg
BS2	132.7mm	MT4	Dividing Head - includes tailstock, plates and gears	65kg

**DIVIDING HEADS WITH CHUCK**



BSOVSC5

ORDER CODE	CENTRE HEIGHT	TAPER of CENTRE	DESCRIPTION	GROSS WEIGHT
BSOVSC5	100mm	MT2	Dividing Head - includes 5" 3 jaw chuck, tailstock and plates	25kg
BS1VSC6	128mm	MT3	Dividing Head - includes 6" 3 jaw chuck, tailstock and plates	43kg
BS2VSC8	132.7mm	MT4	Dividing Head - includes 8" 3 jaw chuck, tailstock, plates and gears	75kg

**BACKING PLATES FOR BS DIVIDING HEADS**



BSOBACK

ORDER CODE	DESCRIPTION
BSOBACK	Backing Plate to Suit BSO
BS1BACK	Backing Plate to Suit BS1
BS2BACK	Backing Plate to Suit BS2

# CLAMP KITS

## CLAMP KIT SIZES



IMPERIAL			
ORDER NUMBER	TABLE SLOT	STUD SIZE	WEIGHT
CK103A	7/16"	3/8" x 16W	7.00kg
CK103B	1/2"	3/8" x 16W	7.00kg
CK104A-UNC	9/16"	1/2" x 13UNC	9.50kg
CK104B-UNC	5/8"	1/2" x 13UNC	10.00kg
CK104A-WIT	9/16"	1/2" x 12W	9.50kg
CK104B-WIT	5/8"	1/2" x 12W	10.00kg
CK105A	11/16"	5/8" x 11W	13.00kg
CK105B	3/4"	5/8" x 11W	13.00kg
CK206	7/8"	3/4" x 10W	25.00kg



METRIC			
ORDER NUMBER	TABLE SLOT	STUD SIZE	WEIGHT
CK08	10mm	8 x 1.25P	7.00kg
CK10	12mm	10 x 1.5P	8.50kg
CK12A	14mm	12 x 1.75P	9.50kg
CK12B	15.7mm	12 x 1.75P	9.60kg
CK14	16mm	14 x 2.0P	11.00kg
CK16	18mm	16 x 2.0P	13.00kg
CK18	20mm	18 x 2.5P	25.00kg
CK20	22mm	20 x 2.5P	28.50kg

## CLAMP KITS - IMPERIAL



ORDER CODE	DESCRIPTION
CK103A	Clamp Kit 3/8 x 16 Stud - 7/16" Slot
CK103B	Clamp Kit 3/8 x 16 Stud - 1/2" Slot
CK104A-UNC	Clamp Kit 1/2 x 13 Stud - Slot 9/16"
CK104A-WIT	Clamp Kit 1/2 x 12 Stud - Slot 9/16"
CK104B-UNC	Clamp Kit 1/2 x 13 Stud - Slot 5/8"
CK104B-WIT	Clamp Kit 1/2 x 12 Stud - Slot 5/8"
CK105A	Clamp Kit 5/8 x 11 Stud - Slot 11/16"
CK105B	Clamp Kit 5/8 x 11 Stud - Slot 3/4"
CK206	Clamp Kit 3/4 x 10 Stud - Slot 7/8"

## CLAMP KITS - METRIC



ORDER CODE	DESCRIPTION
CK08	Clamp Kit 8 x 1.25 Stud - 10mm Slot
CK10	Clamp Kit 10 x 1.5 Stud - 12mm Slot
CK12A	Clamp Kit 12 x 1.75 Stud - Slot 14mm
CK12B	Clamp Kit 12 x 1.75 Stud - Slot 15.7mm
CK14	Clamp Kit 14 x 2 Stud - Slot 16mm
CK16	Clamp Kit 16 x 2 Stud - Slot 18mm
CK18	Clamp Kit 18 x 2.5 Stud - Slot 20mm
CK20	Clamp Kit 20 x 2.5 Stud - Slot 22mm

**GROUND PRECISION PARALLELS 8 PIECE SET - 13mm WIDTH**



VP050

**ACCURACY 0.01mm - Hardness HRC 50-55°**

ORDER CODE	BLOCK SIZES (W x H x L)mm
VP050	13 x 25 x 150 (set of 2)
	13 x 31 x 150 (set of 2)
	13 x 38 x 150 (set of 2)
	13 x 44 x 150 (set of 2)

**GROUND PRECISION PARALLELS 8 PIECE SET - 200mm LENGTH**



VP033

**ACCURACY 0.01mm - Hardness HRC 50-55°**

ORDER CODE	BLOCK SIZES (W x H x L)mm
VP033	8 x 24 x 200 (set of 2)
	12 x 36 x 200 (set of 2)
	22 x 40 x 200 (set of 2)
	31 x 15 x 200 (set of 2) x 2.5 for clamping

**THIN TYPE GROUND PARALLELS 20 PIECE SET - 3mm WIDTH**



VP018

**ACCURACY 0.01mm - Hardness HRC 50-55°**

ORDER CODE	BLOCK SIZES (W x H x L)mm	
VP018	3 x 13 x 150 (set of 2)	3 x 28 x 150 (set of 2)
	3 x 16 x 150 (set of 2)	3 x 31 x 150 (set of 2)
	3 x 19 x 150 (set of 2)	3 x 35 x 150 (set of 2)
	3 x 22 x 150 (set of 2)	3 x 38 x 150 (set of 2)
	3 x 25 x 150 (set of 2)	3 x 41 x 150 (set of 2)

GROUND PARALLELS

**MILLING VICES**

**PRECISION MILLING VICES " K " TYPE**



VK4

**Complete with Swivel Base**

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT. (inc base)
VK4	4" K Type Milling Vice	4"/100mm	62mm	30mm	10kg
VK5	5" K Type Milling Vice	5"/125mm	85mm	37mm	17kg
VK6	6" K Type Milling Vice	6"/150mm	112mm	40mm	27kg
VK8	8" K Type Milling Vice	8"/200mm	150mm	58mm	60kg

**PRECISION MILLING HIGH JAW**



V606V

**Complete with Swivel Base**

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT. (inc base)
V606V	High Jaw Milling Vice	150mm	150mm	75mm	43kg

**VERTI-LOCK MILLING VICE**



VA4

Complete with Swivel Base

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT. (inc base)
VA4	4" Milling Vice Angle Fixed	4"/102mm	103mm	36mm	20kg
VA5	5" Milling Vice Angle Fixed	5"/131mm	110mm	36mm	30kg
VA6	6" Milling Vice Angle Fixed	6"/152mm	142mm	46mm	42kg
VD675	6" Milling Vice Angle Fixed wide opening	6"/152mm	190mm	38mm	43kg
VA8	8" Milling Vice Angle Fixed	8"/200mm	197mm	62mm	80kg
VA8L	8" Milling Vice Angle Fixed wide opening	8"/200mm	266mm	60mm	80kg

**VERTI-LOCK MACHINE VICE**

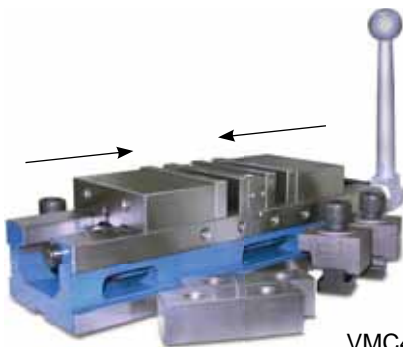


VMC4

Can be ganged with other vices

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT.
VMC4	4" Machine Vice Lock Fixed	4"/101.6mm	100mm	31.5mm	14kg
VMC6	5" Machine Vice Lock Fixed	5"/152.5mm	142mm	44mm	31kg

**VERTI-LOCK MACHINE VICE - DOUBLE CLAMP**

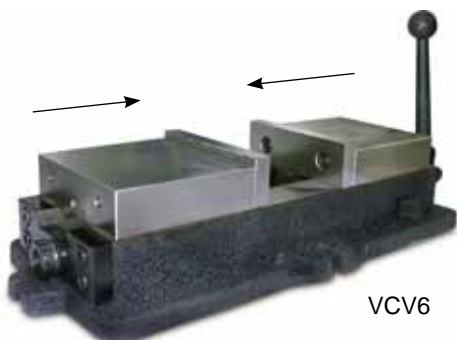


VMC4D

GROUND TO  $\pm 0.025\text{mm}$  - Can be ganged with other vices

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT.
VMC4D	4" Machine Vice Double Clamp	4"/102mm	2 x 57mm	45mm	20kg
VMC6D	6" Machine Vice Double Clamp	6"/152mm	2 x 68mm	58mm	63kg

**COMPOUND ANGLE FIXED MILLING VICE**



VCV6

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT.
VCV6	6" Compound Angle Fixed Vice	6"/150mm	155mm	48mm	52kg

**SUPER OPEN VICE**



VJ500

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT. (inc base)
VJ400	4" Super Open Vice	4"/100mm	170mm	36mm	21kg
VJ500	5" Super Open Vice	5"/127mm	220mm	46mm	32kg
VJ600	6" Super Open Vice	6"/150mm	300mm	51mm	45kg

**HYDRAULIC MILLING VICES**

**PRECISION MILLING HIGH JAW**



VH5

Complete with Swivel Base

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	MAX CLAMP FORCE	WT. (inc base)
VH4	Hydraulic Vice 4"	100mm	170mm	36mm	2500kgs	28kg
VH5	Hydraulic Vice 5"	130mm	208mm	48mm	4500kgs	45kg
VH6	Hydraulic Vice 6"	150mm	300mm	53mm	4500kgs	65kg
VH8	Hydraulic Vice 8"	200mm	300mm	62mm	6500kgs	110kg

MILLING VICES

**MECHANICAL / HYDRAULIC VICE - Lockdown Jaw**



VHO5

HS05

No jaw lift, can be ganged

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	MAX CLAMP FORCE	WT.
VHO5	Hydraulic Vice 4"	130mm	220mm	55mm	3500kgs	41kg
VHO6	Hydraulic Vice 5"	160mm	300mm	58mm	4000kgs	63kg
VHO8	Hydraulic Vice 6"	200mm	310mm	63mm	6000kgs	102kg

Optional Swivel Bases to Suit VHO Vices

HS05	Swivel Base suit VHO5					12.5kg
HS06	Swivel Base suit VHO6					16.5kg
HS08	Swivel Base suit VHO8					35kg

**HYDRAULIC ANGLE FIXED VICE**



VAF4

No jaw lift, can be ganged

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	MAX CLAMP FORCE	WT.
VAF4	Hydraulic Angle Fixed Vice 4"	105mm	170mm	42mm	2500kgs	41kg
VAF6	Hydraulic Angle Fixed Vice 6"	152mm	270mm	57mm	5000kgs	63kg
VAF8	Hydraulic Angle Fixed Vice 8"	200mm	300mm	62mm	7000kgs	102kg

## HYDRAULIC MACHINING CENTRES



VMC130HV

Matched vices specially for machining centres

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	MAX CLAMP FORCE	WT.
VMC100HV	Hydraulic Machining Centre Vice 4"	101mm	320mm	48mm	4000kgf	27kg
VMC130HV	Hydraulic Machining Centre Vice 4"	131mm	380mm	55mm	5000kgf	40kg
VMC160HV	Hydraulic Machining Centre Vice 4"	161mm	470mm	58mm	6500kgf	58kg
VMC200HV	Hydraulic Machining Centre Vice 4"	201mm	540mm	63mm	8000kgf	87kg

## CNC MILLING VICES

### HYDRAULIC REVERSE VICE



VCH160

moveable jaw at outer end

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	WT.
VCH160	Hydraulic Reverse Vice	165mm	280mm	60mm	60kg

### VERTI-LOCK MACHINE VICE - PNEUMATIC



VMC5P

Angle fixed - no jaw lift

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	MAX CLAMP FORCE	WT.
VMC5P	Pneumatic Power Vice 5"	130mm	150mm	55mm	6000kgf	45kg
VMC6P	Pneumatic Power Vice 6"	160mm	160mm	58mm	6000kgf	47kg

### HYDRAULIC ANGLE VICE



VHT4

Tilting 0-50° - Angle fixed Jaws - no jaw lift - complete with swivel base

ORDER CODE	DESCRIPTION	JAW WIDTH	MAX JAW OPENING	JAW HEIGHT	MAX CLAMP FORCE	WT.
VHT4	Hydraulic Angle Vice 4"	105mm	170mm	36mm	2500kgf	32kg
VHT6	Hydraulic Angle Vice 6"	150mm	300mm	53mm	4500kgf	80kg