

FLUID POWER & CONTROL CORPORATION

Manufacturers and Exporters of
Hydraulic and Pneumatic Cylinders



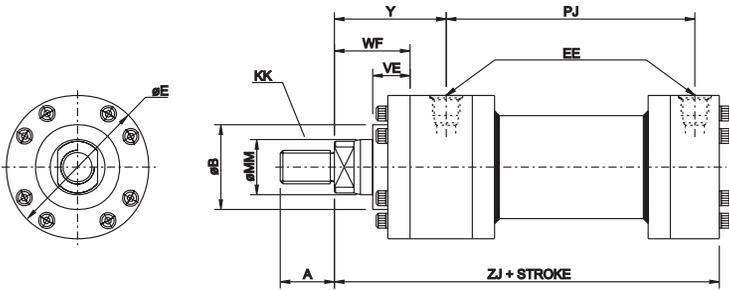
ISO 6020 / 1
MILL DUTY SERIES

VIDYUN[®]
SINCE 1978

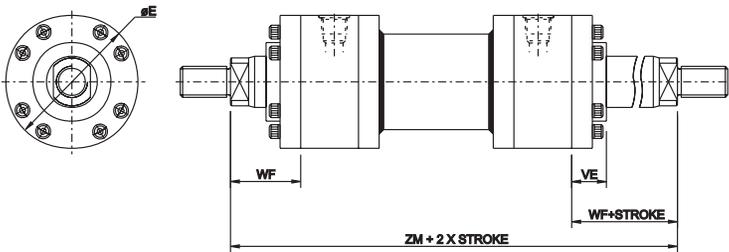
SINGLE & DOUBLE ROD MOUNTING

210 Bar Cylinders Mill duty Series

Single Rod End



Double Rod End



BASIC DIMENSIONS

Bore	ROD ØMM	KK	A	E	EE	ZB MAX	Y	PJ	ZM	WF
40	18	M14X1.5	18	63	G3/8'	166	62	73	127	35
	28	M14X1.5 M20X1.5	28							
50	22	M16X1.5	22	75	G1/2'	176	67	74	126	41
	36	M16X1.5 M27X2	36							
63	28	M20X1.5	28	90	G1/2'	185	71	80	126	48
	45	M20X1.5 M33X2	45							
80	36	M27X2	36	115	G3/4'	212	77	93	145	51
	56	M27X2 M42X2	56							
100	45	M33X2	45	130	G3/4'	225	82	101	151	57
	70	M33X2 M20X1.5	70							
125	56	M42X2	56	165	G1'	260	86	117	175	57
	90	M42X2 M64X3	90							
160	70	M48X2	63	205	G1'	279	86	130	188	57
	110	M48X2 M80X3	110							
200	90	M64X3	85	245	G1-1/4'	336	98	165	247	57
	140	M64X3 M100X3	140							
250	140	M100X3	112	320	G1-1/2'	460	160	201	301	110
	180	M125X4	180							
320	180	M125X4	125	400	G1-1/2'	520	170	245	365	110
	220	M160X4	220							

Fluid power offers hydraulic cylinders with different types of seals

1. For pressure range up to 210 bar 'u' cup type pu material piston seals and rod seal is preferred, pu can withstand the temperature up to 100 deg.
2. For high pressure cylinders turcon material glyde ring & step seal is better option
3. All the cylinders irrespective of seal design is fitted with bronze filled PTFE wear rings in piston as well as on rod.
4. For high temperature resistance, viton and teflon is viable option. It can work upto 230 deg. temperature and pressure not more than 160 bar.
5. For all the longer stroke cylinders multileap chevron packing of canvas or pu material is the most ideal one. They are fitted with PB/GM bush, which gives long bearing length to the piston rod assembly and ensures proper fitting alignment.

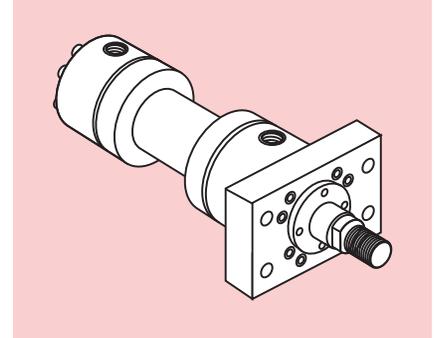
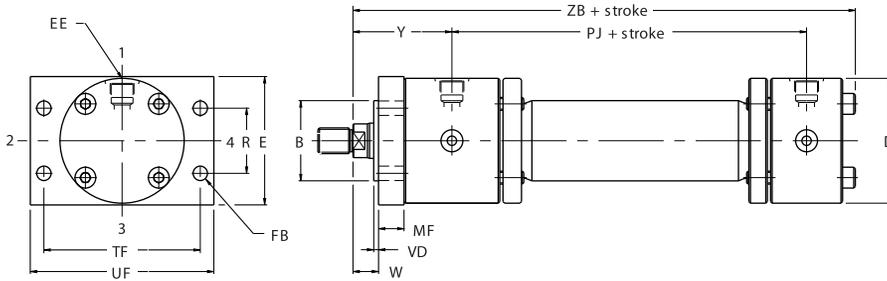
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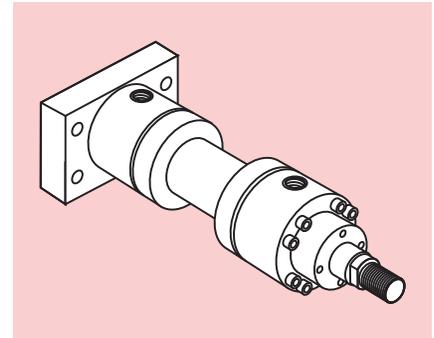
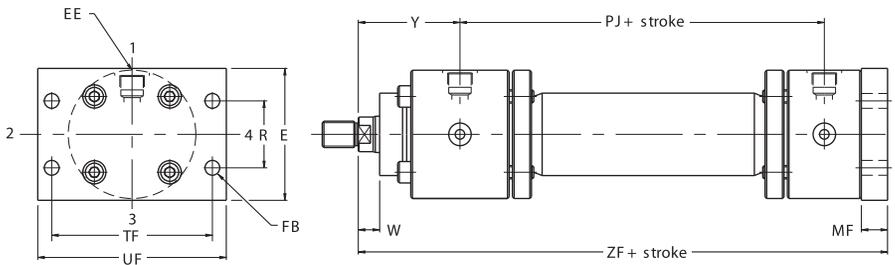
RECTANGULAR FLANGE MOUNTINGS

210 Bar Cylinders Mill duty Series

Head Rectangular Flange - ISO Style MF1



Cap Rectangular Flange - ISO Style MF2



Dimensions for - ISO Style MF1 & MF2

All Dimensions in mm

Bore Ø	B f8	D max	E	FB	MF	R	TF	UF	VD	W	Y	+ Stroke		
												PJ	ZB max	ZF
40	50	78	80	9	16	40.6	98	118	3	16	71	97	198	206
50	60	95	100	11	20	48.2	116.4	140	4	18	72	111	213	225
63	70	116	120	13.5	25	55.5	134	160	4	20	82	117	236	249
80	85	130	135	17.5	32	63.1	152.5	185	4	22	91	134	262	282
100	106	158	160	22	32	76.5	184.8	225	5	25	108	162	314	332
125	132	192	195	22	32	90.2	217.1	255	5	28	121	174	341	357



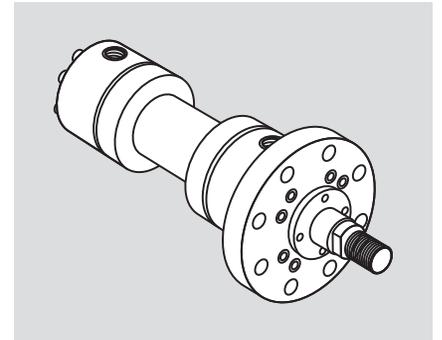
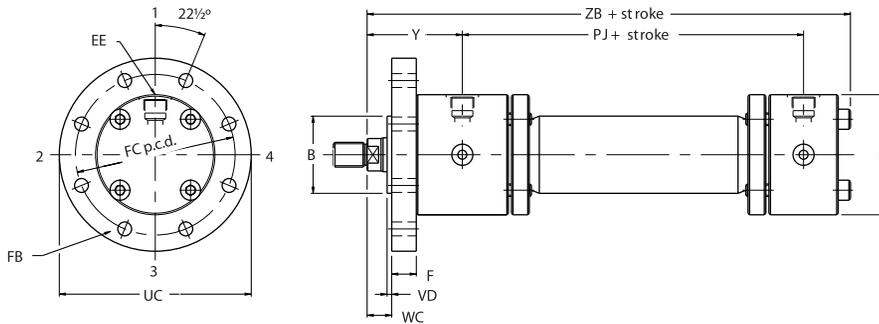
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CIRCULAR FLANGE MOUNTINGS

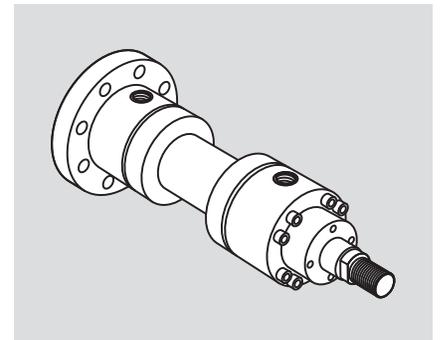
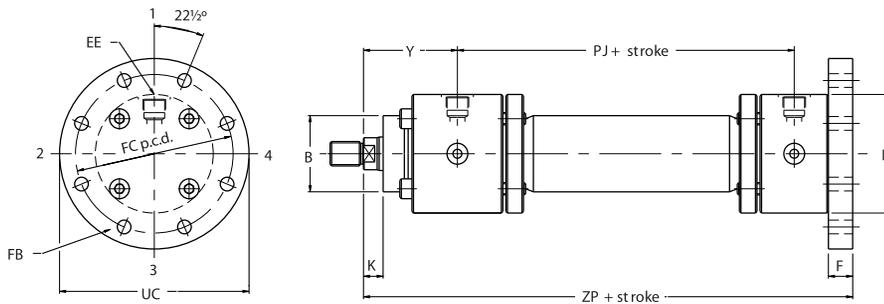
210 Bar Cylinders Mill duty Series

Head Circular Flange - ISO Style MF3



Accurate location of 'B' provided as standard on model MF3 only.

Cap Circular Flange - ISO Style MF4



Dimensions for - ISO Style MF3 & MF4

All Dimensions in mm

Bore Ø	B fb	D max	F	FB	FC	K	UC max	VD min	WC	Y	+ Stroke		
											PJ	ZB max	ZP
40	50	78	16	9	106	13	125	3	16	71	97	198	206
50	60	95	20	11	126	14	148	4	18	72	111	213	225
63	70	116	25	13.5	145	16	170	4	20	82	117	236	249
80	85	130	32	17.5	165	18	195	4	22	91	134	262	282
100	106	158	32	22	200	20	238	5	25	108	162	314	332
125	132	192	32	22	235	23	272	5	28	121	174	341	357
160	160	232	36	22	280	25	316	5	30	143	191	386	406
200	200	285	40	26	340	30	385	5	35	190	224	466	490
250	250	365	56	33	420	32	500	8	40	205	290	570	606
320	320	450	63	39	520	37	600	8	45	250	358	684	723



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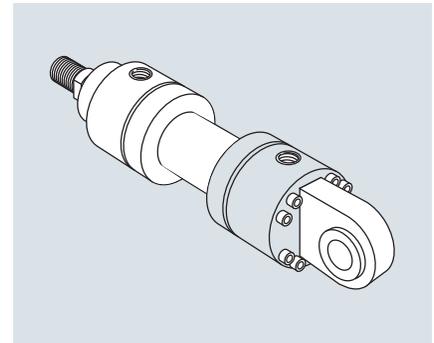
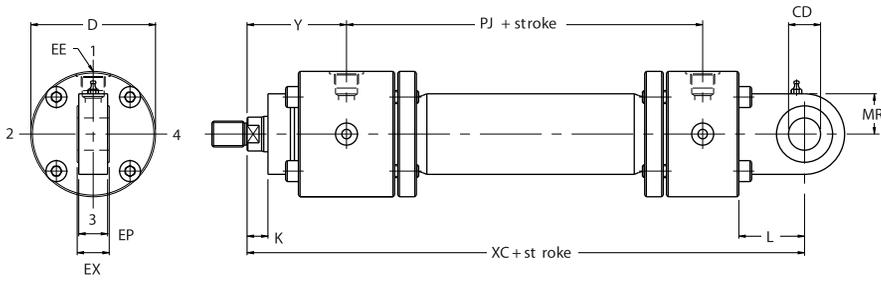
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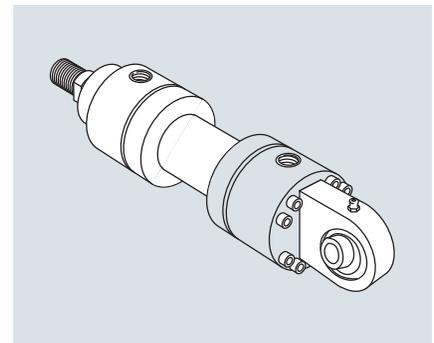
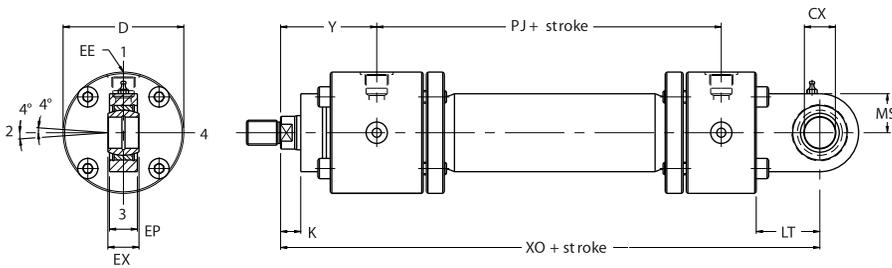
PIVOT MOUNTINGS

210 Bar Cylinders Mill duty Series

Cap Fixed Eye - ISO Style MP3



Cap Fixed Eye with spherical bearing - ISO Style MP5



Dimensions for - ISO Style MP3 & MP5

All Dimensions in mm

Bore Ø	CD ^{H9} & CX ^{H7}	D max	EP	EX h12	K	L & LT	MR & MS	Y	+ Stroke	
									PJ	XC & XO
40	20	78	18	20	13	41	25	71	97	231
50	25	95	22	25	14	52	32	72	111	257
63	32	116	27	32	16	65	40	82	117	289
80	40	130	35	40	18	82	50	91	134	332
100	50	158	40	50	20	95	63	108	162	395
125	63	192	52	63	23	103	71	121	174	428
160	80	232	66	80	25	135	90	143	191	505
200	100	285	84	100	30	165	112	190	224	615
250	125	365	102	125	32	223	160	205	290	773
320	160	450	130	160	37	270	200	250	358	930



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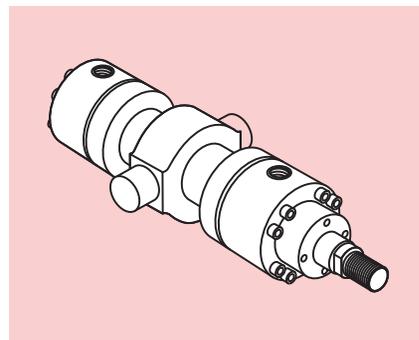
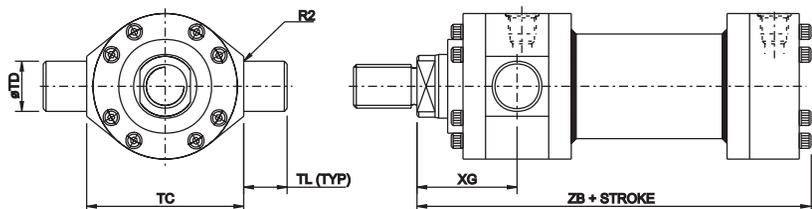
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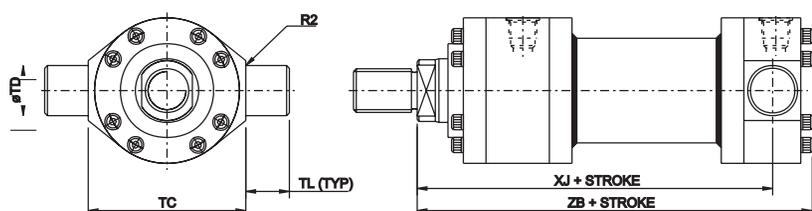
FOOT AND TRUNNION MOUNTINGS

210 Bar Cylinders Mill duty Series

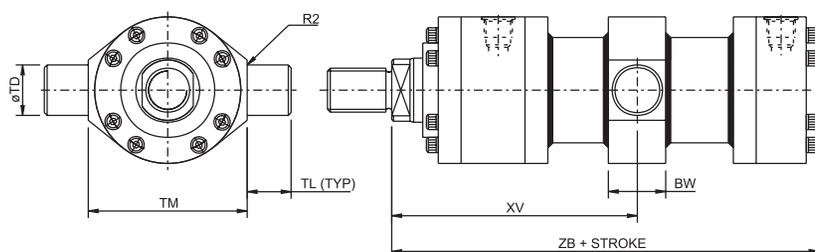
Head End Trunnion Mounting - ISO Style MT1



Cap End Trunnion Mounting - ISO Style MT2



Intermediate Trunnion Mounting - ISO Style MT4



Dimensions for - ISO Style MT1, MT2 & MP4

All Dimensions in mm

BORE	TD F8	TL J16	TM h12	XY		XG	XJ	BW	ZB MAX	STROKE MIN
				MIN	MAX					
40	20	16	90	134	106	57	174	25	198	28
50	25	20	105	152	118	68	189	30	213	34
63	32	25	120	171	120	77	204	37	234	51
80	40	32	135	188	137	85	233	45	260	51
100	50	40	160	230	165	101	278	60	310	65
125	63	50	195	252	174	105	310	73	335	78
160	80	63	240	292	190	119	353	90	380	102
200	100	80	295	366	252	152	443	115	480	114
250	125	100	370	430	290	173	536	140	580	140
320	160	125	470	500	355	190	664	175	710	145

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