

M型立式蜗轮减速器 M type vertical worm gear reductor

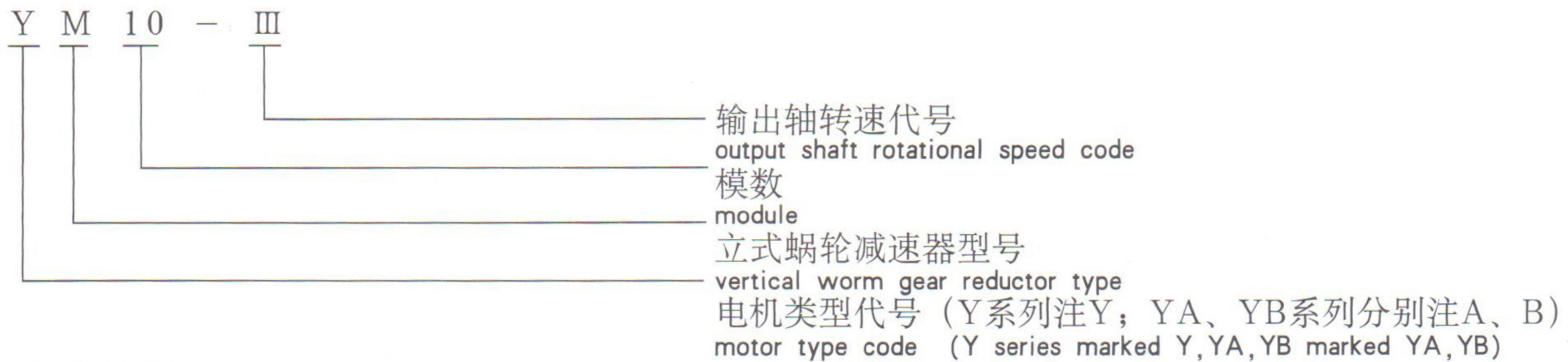
1 概述 >>>>> Brief

M型立式蜗轮减速器是由阿基米德圆柱蜗杆和三角胶带组合而成的两级立式减速传动装置，具有传动速比大、缓冲能力强、工作平稳、噪音低、过负荷保护等优点，成为搪玻璃反应釜首选设备。本系列产品适用于室内无大震动情况的中小型功率搅拌装置上，在蜗杆螺旋升角 $<5^\circ$ 时产生自锁功能，效率更低，为避免意外，以顺时针方向旋转为宜。如配有防爆电机和防静电的三角带边可用于要求防爆的场合。

It is a double grade vertical reduction drive set combined with straight sided axial worm and triangular belt, is the best choice in enamelled reaction kettle as its so many advantages as high speed ratio, better cushioning, running smoothly, lower noise and safeguard of over loaded and etc. this series applied to small and medium power agitating device indoors with no big shock, can be self-locked at the worm screw helix angle no more than 5° , efficiency decreases, to avoid any accident, should do clockwise rotation. The reductor with flame-proof electric motor and anti-static triangular belt can be used in the case that explosion protection required.

2 标记示例、选型表 >>>>> Mark sample and type selection table

2.1 标记示例 Mark sample



2.2 减速机选型表 Reductor type selection table

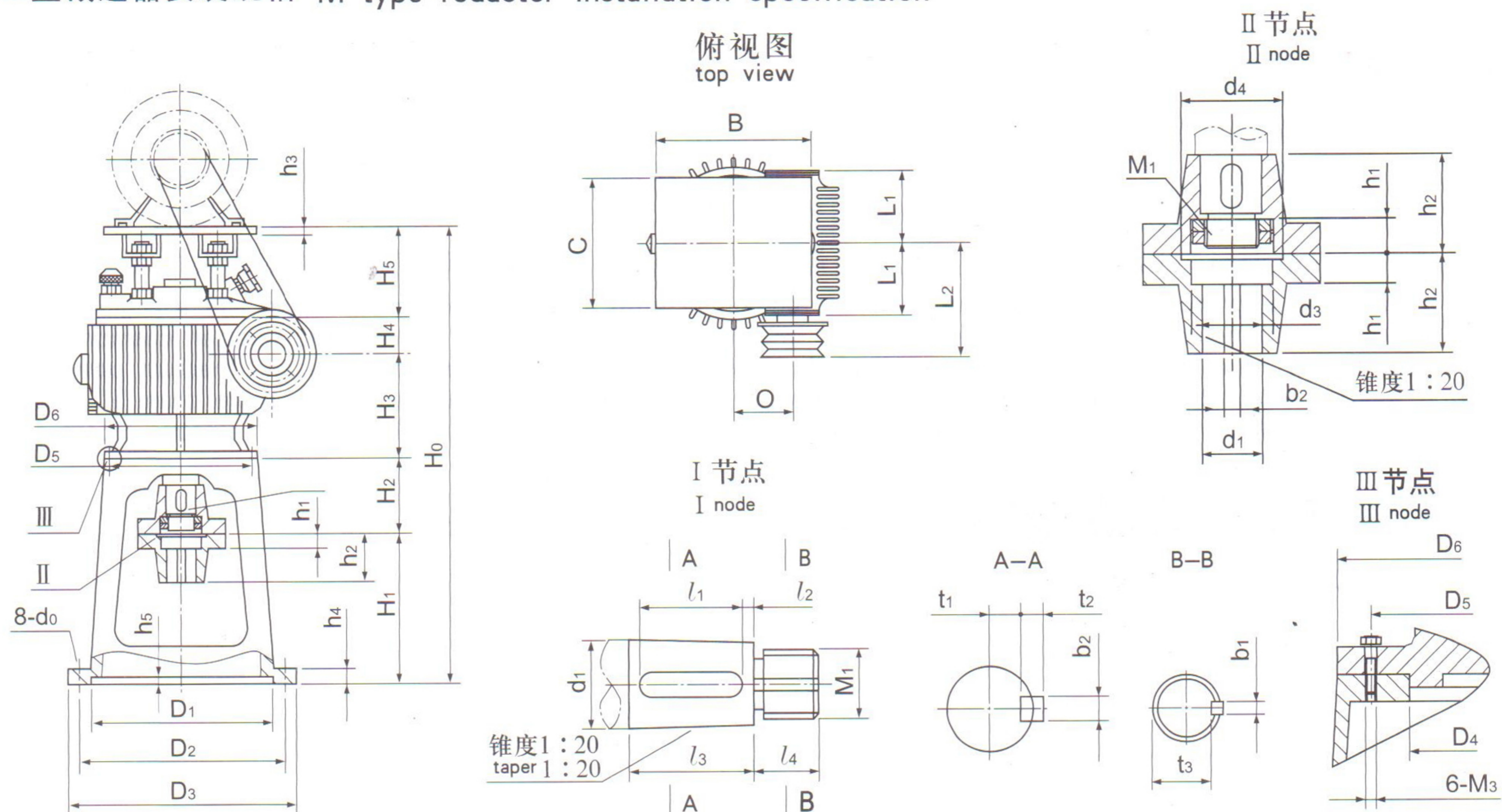
型号 type	转速代号 rotational speed code	输出转速 output rotational speed	输出功率 output power	效率 efficiency	出轴许用扭矩 output shaft safety torque	Y系列电机 Y series motors		中心距 center distance	模数 module	蜗杆头数 thread number of worm	蜗轮齿数 tooth number of worm gear	皮带轮直径 diameter of Belt wheel		皮带型号 及根数 type & count of belt	重量 weight
						转速 rotational speed	功率 power					电机轮 motor wheel	蜗杆轮 worm wheel		
M4	I	40	0.37	0.68	88.3	1390	0.55	86	4	2	33	70	153	A-2	100
	II	50	0.6	0.80	114.6		0.75					85			
	III	60	0.88	0.80	140	1.1	102								
	IV	80	0.94	0.85	112.2	1.1	136								
	V	100	1.28	0.85	122	1.5	147								
M6	I	20	0.79	0.72	377	940	1.1	126	6	1	33	76	173	A-3	200
	II	30	0.79	0.72	251		1.5					92			
	III	40	1.08	0.72	258	2.2	114								
	IV	50	1.83	0.83	350	2.2	90								
	V	60	1.83	0.83	291	3	108								
	VI	80	2.49	0.83	297	1420	144								
M8	I	20	1.17	0.78	559	940	1.5	164	8	1	33	90	260	B-3	300
	II	30	1.72	0.78	541		2.2					134			
	III	40	2.34	0.78	559	3	180								
	IV	50	3.36	0.84	642	4	110								
	V	60	1.36	0.84	535	4	134								
	VI	80	4.62	0.84	552	1440	180								
M10	I	20	2.34	0.78	1117	960	3.0	205	10	1	33	90	260	B-4	500
	II	30	3.12	0.78	993		4.0					134			
	III	40	4.29	0.78	1024	5.5	180								
	IV	50	6.3	0.84	1203	7.5	110								
	V	60	6.3	0.84	1002	7.5	134								
	VI	80	9.24	0.84	1103	1460	180								
M12	I	20	4.29	0.78	2048	970	5.5	240	12	2	32	140	140	B-5	780
	II	30	5.85	0.78	1862		7.5					283			
	III	40	9.35	0.85	2232	11	212								
	IV	50	12.75	0.85	2435	15	250								
	V	60	16.84	0.91	2680	1470	212								
	VI	80	20.02	0.91	2389	1470	160								
M14	I	40	12.90	0.86	3080	970	15	301	14	2	32	250	250	C-4	990
	II	50	15.9	0.86	3036		18.5					380			
	III	60	18.9	0.86	3008	22	450								
	IV	80	27.9	0.93	3330	1470	380								
	V	100	34.4	0.93	3285	1480	285								

注：1.表中所标注的效率，已包括三角皮带传动效率在内。2.若输出转速不能满足工况要求，在上表转速范围内，经调整可以用任意数值转速，订货时应直接标出转速值。

Note: 1.the efficiency in table include the triangular belt drive efficiency
2.output rotational speed can't meet the need, can adjust and use any rotational speed value within above table, but must mark the rotational speed value directly as ordered.

3 安装尺寸 >>>>> Installation size

M型减速器安装规格 M type reductor installation specification



机型号 type	外形尺寸 outline size											输出轴联接尺寸(I节点) output shaft connection size(I node)										
	H ₀	H ₁	H ₂	H ₃	H ₄	H ₅	L ₁	L ₂	B	C	O	M ₁	l ₁	l ₂	l ₃	l ₄	d ₁	b ₁	b ₂	t ₁	t ₂	t ₃
M4	570	200	100	105	60	105	111	175	230	200	86	M27 × 1.5	40	4	48	25	35	5	10	8	11.9	23
M6	740	250	130	145	75	140	147	212	300	280	126	M39 × 1.5	50	4	58	30	50	6	16	10	18.3	35
M8	890	300	150	180	100	160	184	280	380	350	164	M42 × 1.5	70	4	78	30	55	6	16	10	21.5	38
M10	1070	380	170	210	120	190	235	370	415	400	205	M52 × 1.5	80	4	88	40	70	8	20	12	26.4	48
M12	1090	380	170	218	110	212	241	417	480	500	240	M60 × 2	80	4	88	40	80	8	22	14	29.9	56
M14	1218	336	214	278	160	230	300	480	640	700	301	M80 × 2	110	5	123	45	100	10	28	16	38.4	74

机型号 type	安装尺寸 installation size														
	机座输出端 base output end							机座输入端(III节点) base input end(III node)				联轴器(II节点) shaft coupling(II node)			
	D ₁	D ₂	D ₃	h ₄	h ₅	d ₀	h ₃	D ₄	D ₅	D ₆	M ₃	h ₁	h ₂	d ₃	d ₄
M4	215H8	260	290	15	6	12	8	125	145	170	M10	25	75	58	72
M6	290H8	350	380	20	7	14	10	180	210	240	M10	30	90	70	85
M8	360H8	440	480	24	7	18	12	200	250	300	M12	30	110	80	100
M10	440H8	535	580	25	7	22	14	230	300	360	M16	40	130	95	115
M12	440H8	535	580	28	7	22	14	230	300	360	M16	40	130	105	130
M14	540H8	605	650	30	9	24	16	300	370	425	M24	50	170	130	160

注: 联轴器d₁和b₂同输出轴。
Note: shaft coupling d₁ and b₂ same as output shaft.

注: 本样本中如有技术改进或尺寸改动之处, 不另作通知。
Note: any update of technique and size without message issued.