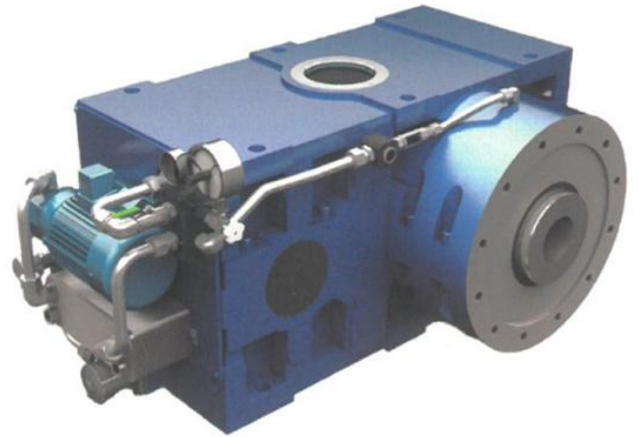


JHM SERIES GEAR UNITS FOR SINGLE SCREW EXTRUDER

JHM单螺杆挤出用减速器

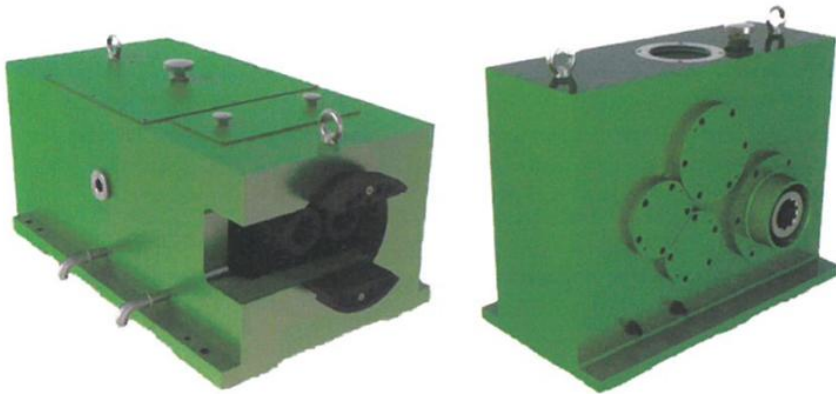
JHM系列减速器是为塑料螺杆挤出机配套设计的高精度硬齿面带推力座的传动装置。产品设计采用GB/Z19414-2003规定的各项技术规范。其特点是齿轮和轴类零件采用了高强度合金钢材质。齿轮经渗碳、淬火、磨齿工艺加工。齿轮精度为GB/T 10095.1-2008, 6级。齿面硬度HRC54~62。在空心输出轴前端配置有超规格的推力轴承, 承受螺杆的工作后座力。轴承和油封等主要标准件皆采用国内优质产品, 也可按用户需要, 配装进口产品。整机具有体积小、承载能力高、传动平稳、噪声低、效率高等特点。产品性能已达到国际先进水平, 可替代同类型进口产品使用。



JHM series gear reducers are high precision hardening tooth flank transmission part with thrust bearing housing. They are designed for plastic screw-rod extruder according to GB/Z19414-2003, The gears and shaft parts are made of high strength alloy steel. The gears are manufactured by way of carburizing, quenching and precision grinding. Its precision is up to Class 6 (GB10095.1-2008), Hardness of tooth flank is HRC54-62. Thrust bearing is in front of output hollow shaft to carry back blow of screw. Bearings, oil seals and some other standard units are domestic quality products and they can also use imported goods as required by customers. Strong load capacity, low noise, stable transmission and high driving efficiency. -

型号/Model	JHM															JHM		
规格/Specs	113 -8	146 -10	173 -10	* 200 -12.5	* 225 -12.5	* 250 -16	※ 280 -16	※ 315 -16	※ 330 -16	※ 375 -16	※ 395 -20	※ 420 -16	※ 420 -20	※ 560 -20	※ 630 -20	※ 450 -32	※ 560 -57	※ 630 -44
公称输入功率Nominal input power(KW) 输入转速Input speed=1500r/min																		
一般可靠 General reliability	22	30.8	39	55	82.5	75	116	171	/	260	220	315	303	600	825	240	240	370
高可靠 High reliability	15	18.3	30.8	45	67	60	75	116	207	207	200	250	266	550	675	200	220	315
许用输出扭矩Allowable output torque (Nm)																		
一般可靠 General reliability	1165	1962	2484	4379	6568	7643	11822	17427	/	26497	28025	32102	38599	76433	105095	48917	87134	103694
高可靠 High reliability	764	1165	1962	3583	5334	6306	7643	11822	21000	22110	25478	25478	33885	70063	85978	40764	79873	88280
许用输出轴轴向推力Allowable output axial trust force (KN)																		
轴向推力 Axial thrust force	39	54	110	155	180	192	258	287	390	390	430	430	500	700	770	500	700	770
推荐配置Recommend station																		
螺杆直径 Screw Diameter (mm)	45 /50	55	65	75	90	100	105 /110	120	130 /150	150 /160	165	165	165	190	200	165	190	220
输入功率 Input Power(kw)	8	11	18.5	26	45	45	55	75	132	132	160	160	213	440	540	200	220	315
输入转速 Input Speed(rpm)	800	900	900	1000	1000	1120	960	960	960	960	1200	960	1200	1200	1200	1500	1500	1500
输出转速 Output Speed(rpm)	100	90	90	80	80	70	60	60	60	60	60	60	60	60	60	47	26	34

SZ SERIES GEAR UNITS FOR CORE DOUBLE-SCREW EXTRUDER SZ系列锥形双螺杆挤出机齿轮箱



SZ系列锥形双螺杆挤出机齿轮箱是与锥形双螺杆塑料挤出机配套的专用机械传动装置，由传动箱与分配箱两部分组成。主电机动力经传动箱减速增扭后，输出至分配箱，再通过一对1:1传动比的小锥角螺旋齿轮驱动双出轴(两轴夹角与两螺杆夹角相同)，带动螺杆以异向外旋的方式运转。

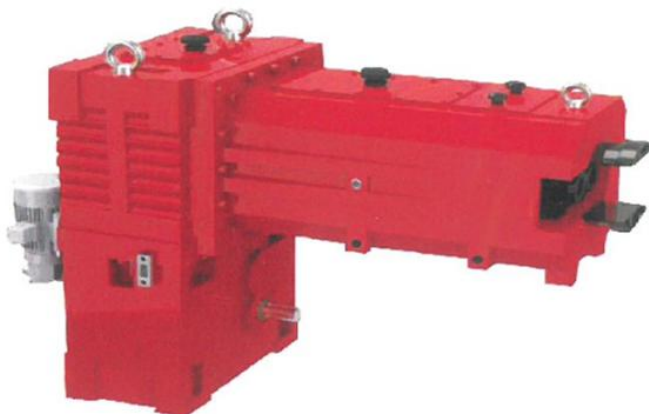
The SZ series gear units is specially designed as a mechanical transmission device mating for the cone double screw plastic extruder. The gear unit is composed of the transmission case and the distributor case. The device can transmit the power generated by the major motor to the long axis of the distributor case after speed reduction and twist increasing in the transmission case. Then the long axis drives the minor axis through a pair of small cone angle spiral gear with a transmission ratio of 1:1. The long axis and the minor axis with the same corner dimension as the screw bolt and in the manner of inversed outward rotation drive the screw to extrude high-quality products.

产品特点 Product Features

- ◎ 传动箱按照GB/Z19414-2003标准设计。齿轮和轴类零件采用优质高强度低碳合金钢。齿轮经渗碳、淬火、磨齿处理，齿面硬度达HRC54—62，齿轮精度达6级。
- ◎ 分配箱箱体采用球铁材质，齿轮采用高强度齿轮。齿轮滚齿采用数控滚齿机切削，其锥角精度高于其它加工方式。
- ◎ 轴承、油封等主要标准件采用国内优质品牌产品，也可按客户要求配置进口产品。
- ◎ 产品承载能力高，噪音小，运转平稳，传动效率高。
- ◎ The transmission case is designed according to the standard of GB/Z19414-2003. The gears and axial are made of top-quality high-strength low carbon alloy steel. The gears go through the process of carburization, heat hardening and gear grinding, with the gear precision of grade 6 and the tooth surface hardness of HRC54-62.
- ◎ The distributor case is made of ductile iron. The gears have high-strength ground teeth. The gear-hobbing is made with CNC gear-hobbing machine. Then its cone angle precision is much higher than other processing method.
- ◎ Bearings, oil seals and some other standard units are domestic quality products and they can also use imported goods as required by customers.
- ◎ Strong load capacity, low noise, stable transmission, and high driving efficiency.

参数/Parameter	型号/Model	输入转速 Input Speed(rpm)	输出转速 Output Speed(rpm)	输入功率 Input Power(kw)	单轴许用推力 Single Axis Allowable thrust Force(KN)
	SZ45	1500	44.8	18.5	1972
	SZ50C	1500	37.8	22	2779
	SZ55	1500	37.5	30	3820
	SZ65	1500	39.1	37	4518
	SZ80	1500	38.7	55	6786
	SZ92	1500	40	110	13130
	SZ95	1500	40	132	15757

SZL SERIES CONICAL TWIN SCREW EXTRUDER GEARBOX SZL锥形双螺杆挤出机传动装置



SZL锥形双螺杆挤出机传动装置是与锥形双螺杆塑料挤出机配套的专用机械传动装置。

该装置可把主电机的动力，经传动箱减速增扭后输出至分配箱长轴，长轴再通过1:1传动比的小锥角螺旋齿轮，带动短轴。长短轴以异向外旋的方式，带动螺杆挤出高质量的制品。

齿轮箱按GB/Z19414-2003标准设计。齿轮和轴类零件采用高强度合金钢制造。齿轮经渗碳淬火磨齿，精度6级，齿面硬度HRC54—62。分配箱箱体为球铁材质。小锥角齿轮采用数控滚齿机加工，其锥角精度大大高于其它加工方式。所有油封皆采用进口产品。传动箱和分配箱内皆配有冷却盘管，用于润滑油的冷却。

由于产品的齿轮精度、轴承的配置相对传统产品有新的改进，因而其整机性能指标要优于现行产品。

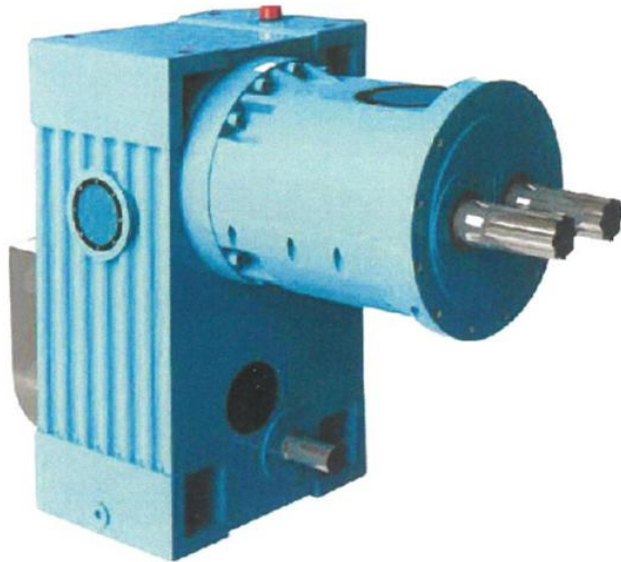
SZL series conical twin screw extrusion machine transmission device is a special mechanical transmission with conical double screw plastic extruder device.

Though deceleration and torque increase of transmission gearbox, the power of main motor can be transported to the long axis of the distribution box by this kind of gearbox. The long axis drive short axis through the small cone angle helical gear with ratio 1:1, driven by the minor axis. The long axis and short axis drive screw to produce high quality products by to spin on different direction.

The GB/Z19414-2003 standard is used to design this transmission box. Gear and shaft adopt high strength alloy steel. After carburizing and gear grinding, gear precision grade 6, tooth surface hardness HRC54-62. Distribution gearbox housing use ductile iron material. Cone gear adopts CNC hobbing, the cone angle accuracy is much higher than other processing methods. All seals are imported brand. Transmission gearbox and distribution gearbox is equipped with a cooling coil which is used for lubricating oil cooling. This kind of gearbox are improved, because of the high gear accuracy and quality bearing, the performance index is superior to existing products.

参数/Parameter	型号/Model	SZL45	SZL50	SZL55	SZL65	SZL80
输入转速 Input Speed(r/min)		1500	1500	1500	1500	1500
输出转速 Output Speed(r/min)		40.98	37.8	37.4	39.1	37.65
输入功率 Input Power(kw)		18.5	22	30	37	55
单轴输出扭矩 Single Axis Output Torque(N.m)		2097	2779	3820	4518	6975

ZA SERIES CONICAL TWIN SCREW EXTRUDER GEARBOX ZA锥形双螺杆挤出机传动装置



ZA系列锥形双螺杆挤出机传动装置是与锥形双螺杆塑料挤出机配套的专用机械传动装置。

该装置可把主电机的动力，经传动箱减速增扭后输出至分配箱长轴，长轴再通过1：1传动比的小锥角螺旋齿轮，带动短轴。长短轴以异向外旋的方式，带动螺杆挤出高质量的制品。

齿轮箱按GB/Z19414-2003标准设计。齿轮和轴类零件采用高强度合金钢制造。齿轮经渗碳淬火磨齿，精度6级，齿面硬度HRC54—62。分配箱箱体为球铁材质。小锥角齿轮采用数控滚齿机加工，其锥角精度大大高于其它加工方式。所有油封、轴承皆采用进口产品。传动装置配有包含自封式吸油滤清器、板式冷却器的油路系统。

由于产品的齿轮精度、轴承的配置、外形的设计相对传统产品有新的改进，因而其整机性能指标要优于现行产品。

ZA series conical twin—screw extrusion machine transmission device is a special mechanical transmission with conical double screw plastic extruder device.

Though deceleration and torque increase of transmission gearbox, the power of main motor can be transported to the long axis of the distribution box by this kind of gearbox. The long axis drive short axis through the small cone angle helical gear with ratio 1:1, driven by the minor axis. The long axis and short axis drive screw to produce high quality products by to spin on different direction.

The GB/Z19414-2003 standard is used to design this transmission box. Gear and shaft with high strength alloy steel. After carburizing and gear grinding, gear precision grade 6, tooth surface hardness HRC54-62. Distribution gearbox housing use ductile iron material. Cone gear adopts CNC hobbing, the cone angle accuracy is much higher than other processing methods. All bearings and oil seals are imported brand, The transmission device is provided with a self sealing oil system, oil filter plate cooler.

This kind of gearbox are improved, Because of the high gear accuracy and high quality bearing, The performance index is superior to existing products.

参数/Parameter 型号/Model	螺杆直径 Screw Diameter(mm)	输入功率 Input Power(kw)	输入转速 Input Speed(rpm)	输出转速 Output Speed(rpm)
ZA	65	37	1500	38.9
ZA	80	75	1500	38.1

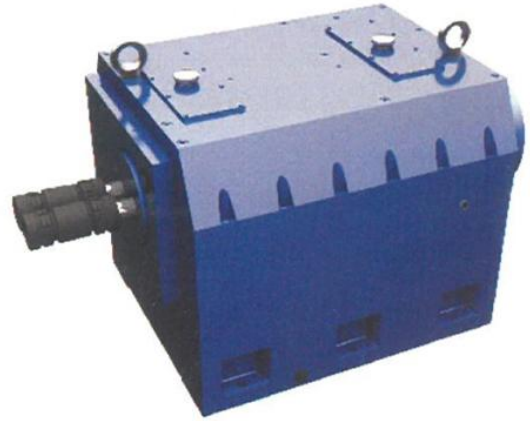
TPS SERIES PARALLEL TWIN SCREW EXTRUDER GEARBOX TPS系列平行双螺杆挤出机传动装置

本产品是和同向平行双螺杆挤出机配套的硬齿面高精度传动装置,按GB/Z19414-2003标准设计。

整机采用卧式布置,处于同一水平高度,安装方便。

This product is kind of high precision,heavy duty and tooth-flank hardened gear units,matching for co-rotating parallel twin screw extruder.It designed allording to standard GB/z19414-2003.

The machine adopts horizontal type ,The whole parts are at the same level and it's convenient installation.



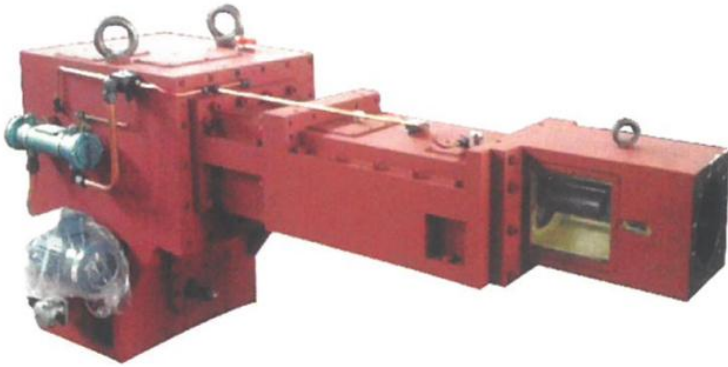
产品特点 Product Features

- ◎ 各传动部件采用了高强度合金钢材质,经渗碳淬火,磨齿工艺制造,关键零件增加了表面强化工艺,齿面硬度达到HRC54-62,芯部硬度HRC30-42,齿轮精度6级。高效率、高强度、低噪音。
- ◎ 球墨铸铁材质的箱体,经多面切削加工,刚性好,平整美观。
- ◎ 轴承采用德国INA、我国瓦轴、洛轴、上海交大研究所的不同轴承产品混合配置设计,兼顾了产品的可靠性和经济性。轴承的设计寿命在2-5万小时之间。
- ◎ 外置式强制润滑和冷却系统,强化了润滑和冷却效果,运行可靠,便于维护。

- ◎ The transmission parts adopt high strength alloy steel material, after carburizing and quenching, grinding manufacture process, The key parts are increased the surface strengthening technology, the tooth surface hardness reaches HRC54-62, the core hardness reaches HRC30-42, gear precision level reach 6.It was featured with high efficiency, high strength and low noise.
- ◎ The gearbox housing adopts ductile iron material,after polyhedral machining,it features with good rigidity,smooth and beautiful appearance.
- ◎ Bearing adopts German INA brand, ZWZ , LYC brand in China, Shanghai Jiaotong university institute brand according to design requirement. It advantages are both reliability and economy of the product. The design of the bearing life is between 20000-50000 hours.
- ◎ External forced lubrication and cooling system, It strengthen lubrication and cooling effect, reliable operation and easy maintenance.

型号/Model	参数/Parameter	功率 Power(kw)	输入转速 Input Speed(rpm)	输出转速 Output Speed(rpm)	速比 Ratio(i)	单轴许用推力 Single Axis Allowable thrust Force(KN)
TPSB45/56A		22	1500	300	5	15
TPC45/56		30	1500	410	3.65	16
TPS60/75		110	1500	500	3	15
TPS60/75		66	1500	300	5	17
TPS70/85		110	1500	500	3	13
TPS70/88		200	1500	523	2.87	12
TPSC70/85		263	1500	653	2.68	16
TPSB72/85		132	1500	354	4.24	13
TPSB72/85		132	1500	508	2.95	13
TPS81/100		132	1500	506	2.96	15
TPS95/116		220	1500	428	3.5	16
PS97/115		160	1500	346	4.33	13
PA97/128		200	1500	500	3	16
TPS103/120		220	1500	506	2.96	15
TPS106/120		250	1500	506	2.96	15
TPSC110/130		550	1500	600	2.5	17
TPSB120/140		315	1500	428	3.5	15
TPSC120/140		315	1500	454	3.3	15
TPS124/148		315	1500	346	4.33	15
TPS128/150		315	1500	346	4.33	15
TPS133/160		450	1500	506	2.96	12

YPS SERIES GEARBOX INVERTED PARALLEL TWIN SCREW EXTRUDER GEARBOX YPS系列异向外旋平行双螺杆挤出机传动装置



本产品是与异向外旋平行双螺杆挤出机配套的硬齿面高精度传动装置。

整机由传动箱和输出分配箱两部分组成，采用立式布置，主电机可布置于分配箱下方，结构紧凑美观。

This product with the outward rotating parallel twin-screw extruder hardened high precision gear machine.

The whole machine is composed of two parts the transmission box and the output distribution box, It adopts vertical type, And the main motor can be arranged at the lower part of the distribution box, and the structure is compact and beautiful.

产品特点 Product Features

- ◎ 减速箱和分配箱传动部件采用了普通和超高强度合金钢材质，经渗碳淬火，磨齿工艺制造，关键零件增加了表面强化工艺，齿面硬度达到HRC54-62,芯部硬度HRC30-42,齿轮精度6级。高效率、高强度、低噪音。
- ◎ 球墨铸铁材质的箱体，经多面切削加工，刚性好，平整美观。
- ◎ 轴承采用德国INA、我国瓦轴、洛轴的不同轴承产品混合配置设计，兼顾了产品的可靠性和经济性。轴承的设计寿命在2-5万小时之间。
- ◎ 外置式强制润滑和冷却系统，强化了润滑和冷却效果，运行可靠，便于维护。

- ◎ The transmission parts of all gearboxes adopt high strength alloy steel material, after carburizing and quenching, grinding manufacture process, The key parts was increased the surface strengthening technology, the tooth surface hardness reaches HRC54-62, the core hardness reaches HRC30-42, gear precision level reach 6.It was featured with high efficiency, high strength and low noise.
- ◎ The gearbox housing adopts ductile iron material, after polyhedral machining, it features with good rigidity, smooth and beautiful appearance.
- ◎ Bearing adopts German INA brand, ZWZ or LYC brand in China, according to design requirement. It advantages are both reliability and economy of the product. The design of the bearing life is between 20000-50000 hours.
- ◎ External forced lubrication and cooling system,It strengthen the lubrication and cooling effect, reliable operation and easy maintenance.

型号/Model	参数/Parameter Screw Diameter(mm)	输入功率 Input Power(kw)	输入转速 Input Speed(rpm)	输出转速 Output Speed(rpm)	单轴许用推力 Single Axis Allowable thrust Force(KN)
YPS64/75	75	45	1500	78.5	110
YPS64/75	75	41	1500	49.9	110
YPS64/75	75	37	1500	44.5	110
YPS64/75	75	30	1500	37.2	110
YPS76/90	90	55	1500	45.2	156
YPS76/90	90	43	1500	36.1	156
YPS76/90	90	18	1500	30.2	156
YPS90/107	107	90	1500	45.3	220
YPS90/107	107	70	1500	35.8	220
YPS95/116	116	102	1500	45.1	259
YPS95/116	116	80	1500	36.5	259
YPS104/120	120	110	1500	45.1	325
YPS110/130	130	160	1500	45.2	325
YPS110/130	130	124	1500	34.3	325
YPS116/140	140	160	1500	40	375