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Swing Device • Travel Device • Crane Application

回转减速机·行走减速机·卷扬机

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GEAR



合肥大久保机械有限公司

Hefei Okubo Machinery Co.,Ltd

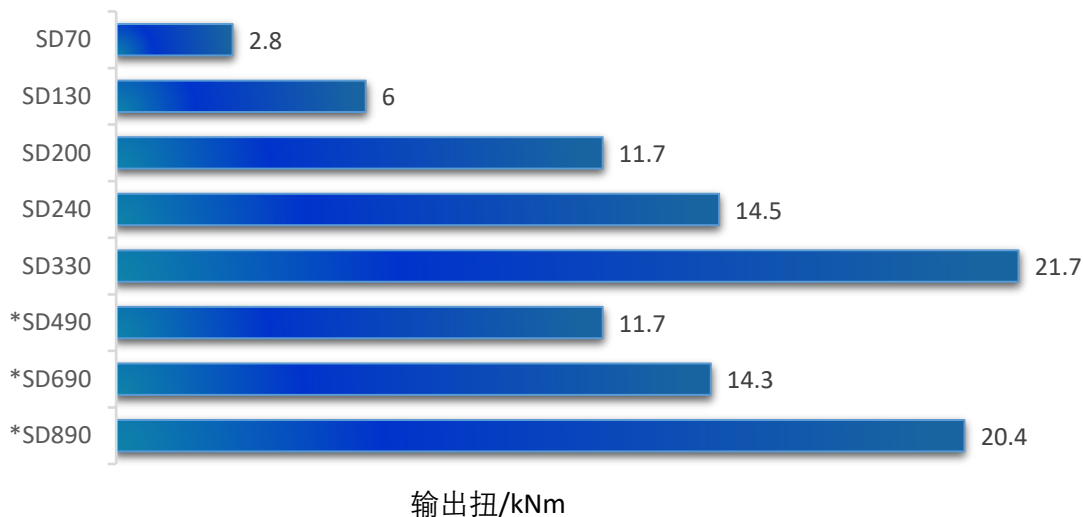
Note) For detail, please feel free to contact us. 注) 欲了解详情, 敬请咨询。

Swing Device

回转减速机

主要用途

挖掘机等工程机械用回转装置



减速机型号		SD70	SD130	SD200	SD240	SD330	*SD490	*SD690	*SD890
马达接口	模数/m	2.5	1.667	1.667	1.667	1.667	1.667	1.667	2.5
	齿数/Z	68	16	19	19	19	19	19	16
	压力角/°	20	20	20	20	20	20	20	20
减速比		16.74	16.16	17.53	21.75	23.45	17.53	23.63	25.05
允许输出扭/kNm		2.8	6.0	11.7	14.5	21.7	11.7	14.3	20.4
挖掘机接口	模数/m	8	10	12	12	12	12	14	14
	齿数/Z	12	13	13	15	13	15	12	14
	压力角/°	20	27	27	27	27	27	20	20
减速机润滑		HP46	GL-4	GL-4	GL-4	GL-4	GL-4	GL-4	GL-4
减速机重量/Kg		78.3	90	171	223	299	171	247	335
适用挖掘机重/Ton		7	12~13	20~21	24~26	30~40	20~21	70	90

*一般同时使用 2 台减速机, 用于大型工程机, 更耐冲击。

减速机主要尺寸 mm	位置	SD70	SD130	SD200	SD240	SD330	*SD490	*SD690	*SD890
	A	272.0	222.0	305.0	350.0	382.0	305.0	350.0	382.0
	B	251.0	198.0	287.0	325.0	356.0	287.0	325.0	356.0
	C	170.0	177.5	260.0	300.0	330.0	260.0	300.0	330.0
	D	225.0	270.0	360.0	420.0	420.0	360.0	374.0	390.0
	E	260.0	325.0	410.0	500.0	500.0	410.0	480.0	500.0
	F	295.0	365.0	450.0	550.0	550.0	450.0	530.0	554.0
	G	89.5	121.0	137.5	161.8	144.5	137.5	220.5	237.0
	H	209.0	354.5	337.0	300.0	220.5	337.0	334.0	388.0
	I	298.5	384.5	480.5	468.8	542.0	480.5	561.5	630.0
	J	21.0	25.0	25.0	27.0	30.0	25.0	27.0	40.0

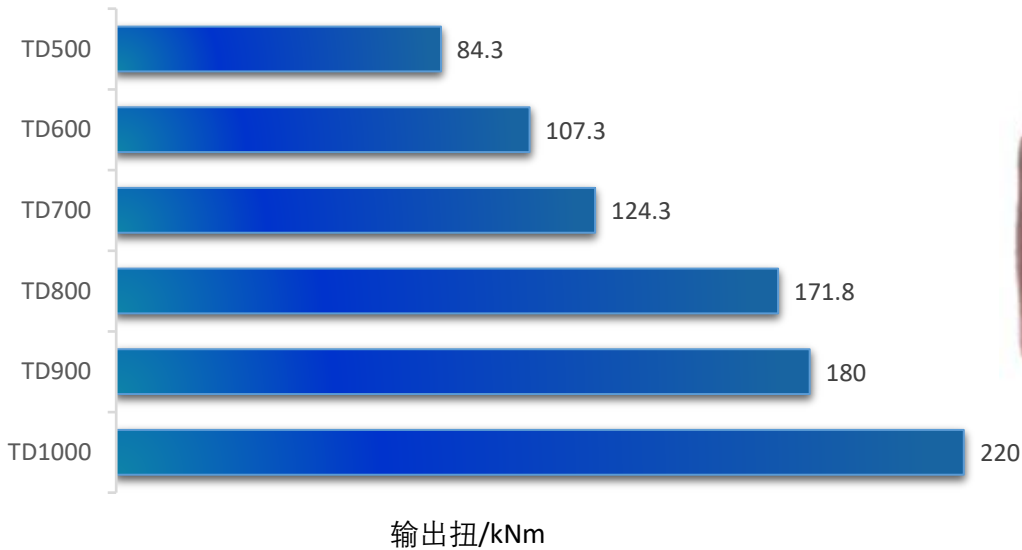
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Travel Device

行走减速机

主要用途

挖掘机等工程机械用行走装置*不含液压马达



减速机型号		TD500	TD600	TD700	TD800	TD900	TD1000
马达接口	模数/m	2.5	2.5	2.5	2.5	2.5	2.5
	齿数/Z	16	16	16	16	16	16
	压力角/°	20	20	20	20	20	20
减速比		55.3	69.6	74.9	87.0	90.8	100.6
允许输出扭/kNm		84.3	107.3	124.3	171.8	180.0	220
允许转速/rpm		27.42	36	29.4	24.9	24	24
减速机润滑		GL-4	SAE 90	SAE 90	GL-4	GL-4	GL-4
减速机重量/Kg		427	585	739	675	808	948
适用挖掘机重量/Ton		45 ~ 50	55 ~ 60	65 ~ 70	70 ~ 80	85 ~ 90	95 ~ 100

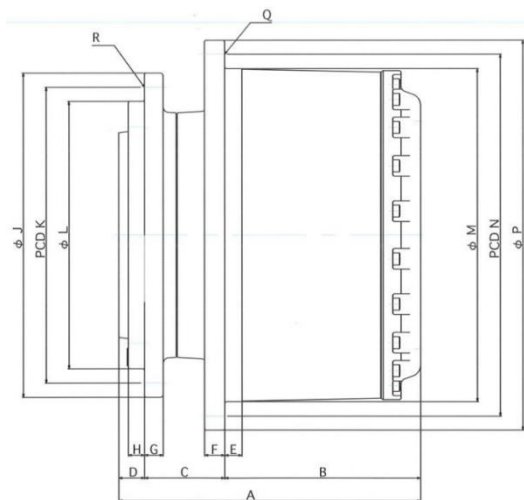
减速机主要尺寸 mm	位置	TD500	TD600	TD700	TD800	TD900	TD1000
	A	516	566	612	612	590	652
	B	470	520	520	520	530	550
	C	420	470	470	470	470	470
	D	650	681	705	705	786	790
	E	605	636	656	656	630	737
	F	447	578	578	578	568	535
	G	556	585	585	585	668	670
	H	140	141	150	150	160	183
	K	50.5	49	46	46	61.5	36
	L	500.5	507	543	573	566.5	625.5

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Crane Application

卷扬减速机

Type 型式	Application 主机	Reduction ratio 减速比	Max output torque N·m 最大输出扭矩	Max output rpm min ⁻¹ 最大输出转速	Unit Weight 质量 Kg
WR96	Boom winch [8ton] 卷扬	1/37.2	27500	53.8	345
WT96	Deck crane mast operation [30ton] 俯仰用	1/55.875	39900	16.5	335
WT14	Deck crane mast operation [40ton] 俯仰用	1/74.853	57800	11.6	637
	Deck crane mast operation [50ton] 俯仰用		60200	14.7	
WT11	Deck crane mast operation [30ton] 卷扬	1/147.788	105200	39.3	578
WT17	Crawler crane Winch [250ton] 履带吊卷扬	1/97.8	132300	10.0	703



WR-WT series are designed for planetary type gear box of housing rotated application.

These products are mainly used for deck cranes which require high output torque and are also used for other various fields of applications responding to customer's needs with high reliability.

WT · WR 系列卷扬用减速机采用的是外轮回转型行星减速机。主要是以需要大扭矩的甲板起重机卷扬用减速机为主, 适合各制造厂商的需求, 在各个领域都得到好评, 具有很高的可靠性。

Physical Dimensions 外形尺寸 mm:

Type	A	B	C	D	E	F	G	H	J	K	L	M	N	P	Q	R
WR96	413	283	112	18	28	35	32	15	454	418	374	450	488	525	16-φ22	20-M20×2.5
WT96	460	325	112	23	15	30	30	15	455	415	375	448	525	565	16-φ22	20-M20×2.5
WT14	534	347	141	46	30	35	33	29	570	520	470	585	636	685	26-φ26	32-M24×3.0
WT11	483	317	141	25	30	35	33	20	566	520	470	585	836	681	24-φ24	24-M22×2.5
WT17	588	332	141	115	30	35	33	28	600	550	470	600	670	720	30-φ23.5	32-M24×3.0

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Swing Device

回转减速机

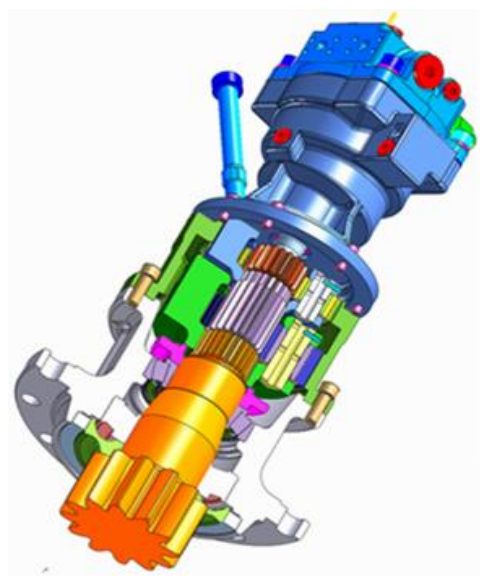
SD series are planetary reduction gear box with shaft output structure.

This series developed through technology and experience over the years are used in the hydraulic excavators which receive large shock loads and has gained high reliability in other applications.

SD 系列减速机采用的是轴出力型行星减速机。该系列集我公司多年积累技术、经验进行设计而成, 作为挖掘机用的减速机, 在实际应用中会经受很大冲击, 在各个领域具有很高的可靠性。

We validate quality of the products by performing the endurance tests suitable to customer's required specification at the developing phase of the product.

本公司根据客户需求在开发阶段针对客户的技术指标进行了耐用实验检测、以实现高品质质量保证。



Slewing reducer is a kind of full-circumferential slewing deceleration transmission mechanism that integrates the driving power source, it takes the slewing ring as the transmission follower and the mechanism attachment, through attaching the driving member, the driving source and the cover on a ring in the inner and outer rings of the slewing ring, and the other ring is both regarded as the transmission follower, and is used as the connecting base of the driven working part, so that the slewing bearing itself is the characteristic of the full-cycle slewing connector, and the driving power source and the main transmission parts are efficiently configured, so that it becomes a kind of integrated slewing, It is a general-purpose deceleration transmission mechanism that integrates deceleration and drive functions in one and at the same time has a simple structure and is easy to manufacture and maintain.

回转式减速器, 是一种集成了驱动动力源的全周回转减速传动机构, 它以回转支承作为传动从动件和机构附着件, 通过在回转支承内外圈中的一个圈上附着主动件、驱动源和罩壳, 而把另一个圈既当作传动从动件, 又作为被驱动工作部件的连接基座, 这样利用回转支承本身就是全周回转连接件的特点, 高效配置驱动动力源和主传动零件, 使之成为一种集回转、减速和驱动功能于一体而同时又结构简单, 制造和维护方便的通用型减速传动机构。

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Travel Device

行走减速机

The working principle of the walking reducer:

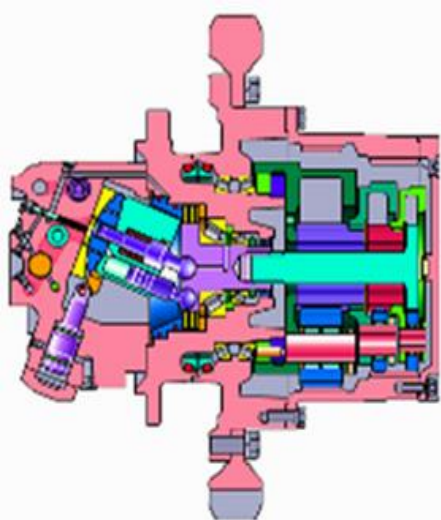
the motor provides power, the gearbox realizes the deceleration effect, and the traveling mechanism transmits the decelerated power to the equipment. Specifically, when the motor is started, the rotational speed of the motor is transmitted to the gearbox via an axial connection device. The gears in the gearbox achieve different reduction ratios according to different combinations of teeth and modulus. The decelerated power is then transmitted to the equipment through the traveling mechanism, so that the equipment can walk or rotate.

行走减速机工作原理:

电动机提供动力, 齿轮箱实现减速作用, 行走机构将减速后的动力传递给设备。具体来说, 当电动机启动时, 电动机的转速通过轴向连接装置传递给齿轮箱。齿轮箱中的齿轮根据不同的齿数和模数组合, 实现不同的减速比。减速后的动力再通过行走机构传递给设备, 从而实现设备的行走或旋转。

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Travel reducers are ideal drives for wheeled or tracked vehicles and other mobile equipment. In addition, it can be applied wherever there is movement and rotation. Due to its particularly compact design, it can also be used in places where the installation environment is extremely difficult.

Application areas of travel reducer: for excavator track drive; Used for wheel drive of airport vehicles; For garbage compaction vehicle wheel drive; wheel drive for harvesters; used for roller travel drive; For drilling equipment, track drives.

行走减速机是轮式或履带式传动的车辆和其它移动设备理想的驱动装置。除此之外, 凡有运动和旋转的地方均可适用。由于它的结构形式特别紧凑, 所以, 也能应用在安装环境极端困难的地方。行走减速机应用的领域: 用于挖掘机履带驱动; 用于空港车辆车轮驱动; 用于垃圾压实车辆车轮驱动; 用于收割机的车轮驱动; 用于压路机行走驱动; 用于钻探设备履带驱动。