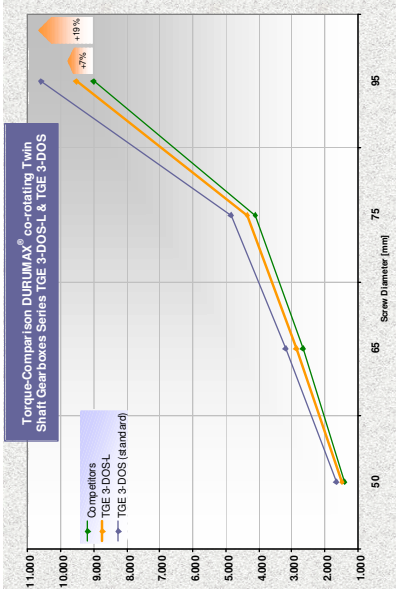
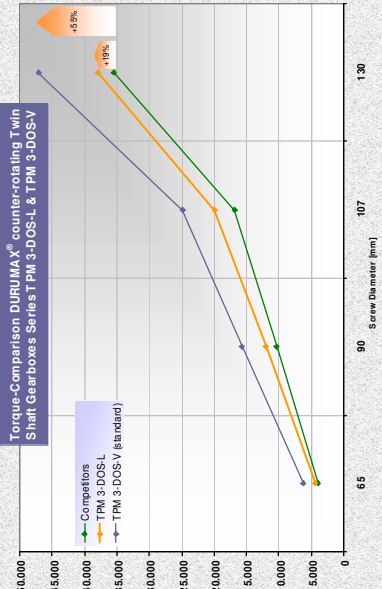


DURUMAX® BASICLINE - for each application the right twin shaft extruder gearbox

Responding to the demands of the markets, HENSCHTEL has extended well-known DURUMAX® twin shaft extruder gearbox series by adding the "BASICLINE". With the "BASICLINE" HENSCHTEL offers gearboxes with medium torque ratings at a very competitive price level. Keeping reliability and quality at our standard level we offer an outstanding solution for standard applications.

The following charts show the power ratings of the BASICLINE gearboxes compared to these of our standard series and the competitors.

- Adequate torque ratings**
- Brand thrust bearings**
- Highest reliability**
- Sufficient safety factors**
- Made in Germany**
- Competitive in price**



We want you to be pleased with us. Your success is our motivation !

Service

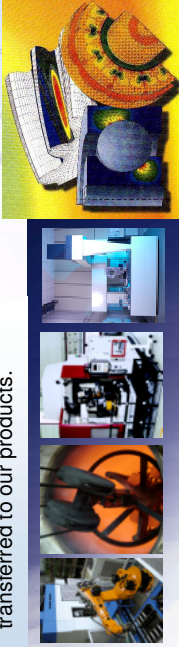
We look after you individually as a full service partner. We are at your service from the very first consultation right up to delivery and assembly of the products.



Quality

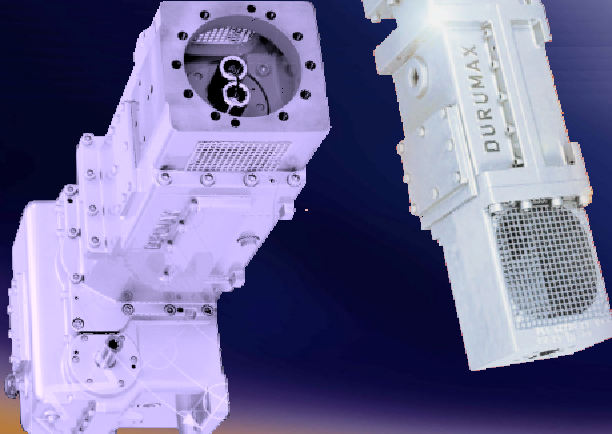
Our policy of quality has established itself within our company code. We wish to offer our customers products and service of the highest standard. For this reason we have introduced an apparatus for a contract based quality management system according to DIN EN ISO 9001. This system is applied to every contract. We pursue the permanent target of producing even better products with less deviances.

Henschel Antriebstechnik supports its claim to quality as a member company of the Forschungsvereinigung Antriebstechnik e.V." (FVA). By taking part in numerous FVA -teams working on such subjects as spur gears, materials, worm gearboxes, computer calculation and simulation, as well as oils and lubrication our engineers are actively informed of the most up to date research results. This knowledge is then constantly transferred to our products.



DURUMAX® BASICLINE

TPM 3-DOS-L & TGE 3-DOS-L the economical series of co- & counter rotating twin shaft extruder gearboxes



EXCELLENCE since 1918 in Gearboxes



TS HENSCHTEL

Basicline-EN 06/2005

	DURUMAX® Extruder Gearboxes
	AUTUMAX® Worm Gear S&Bs
	AUTUMAX® Worm Gearboxes
	DURUMAX® Relay Technology
	DURUMAX® Special Gearboxes
	Job Order Production & Heat Treatment

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TPM 3-DOS-L counter-rotating twin shaft extruder gearboxes

gearbox size	TPM 3-65-DOS-L			TPM 3-90-DOS-L			TPM 3-107-DOS-L			TPM 3-130-DOS-L			
	center distance	P_M [kW]	T_2 [Nm]	F_{axW} [kN]	P_M [kW]	T_2 [Nm]	F_{axW} [kN]	P_M [kW]	T_2 [Nm]	F_{axW} [kN]	P_M [kW]	T_2 [Nm]	F_{axW} [kN]
n_2 [rpm]													
5	2	4.400	139	7	12.000	254	11	20.000	363	21	38.000	546	5
10	5	4.400	139	13	12.000	254	22	20.000	363	42	38.000	546	10
15	7	4.400	139	20	12.000	254	33	20.000	363	63	38.000	546	15
20	10	4.400	139	27	12.000	254	45	20.000	363	85	38.000	546	20
25	12	4.400	139	33	12.000	254	56	20.000	363	106	38.000	546	25
30	15	4.400	139	40	12.000	254	66	19.798	363	127	38.000	525	30
35	17	4.400	139	47	12.000	244	74	18.903	355	141	36.282	502	35
40	20	4.400	139	53	12.000	235	81	18.157	341	155	34.855	482	40
45	21	4.247	135	60	11.920	226	88	17.528	329	169	33.646	465	45
50	23	4.116	131	64	11.550	219	94	16.935	319	182	32.597	451	50
55	25	3.999	127	69	11.221	213	101	16.504	310	194	31.678	438	55
60	26	3.896	124	73	10.931	208	107	16.077	302	206	30.860	427	60
65	28	3.804	121	77	10.672	203	114	15.694	295	218	30.126	417	65
70	29	3.719	118	81	10.439	198	120	15.351	288	230	29.465	408	70

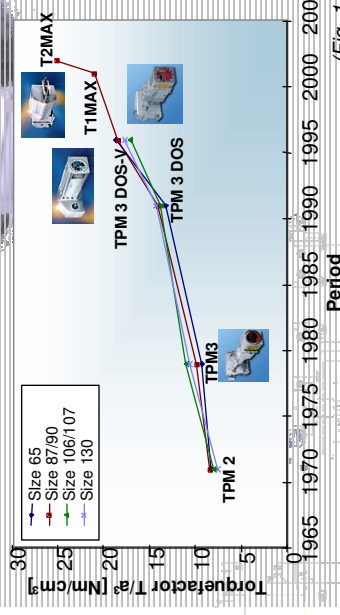
TGE 3-DOS-L co-rotating twin shaft extruder gearboxes

gearbox size	TGE 3-50-DOS-L			TGE 3-65-DOS-L			TGE 3-75-DOS-L			TGE 3-95-DOS-L			
	center distance	P_M [kW]	T_2 [Nm]	F_{axW} [kN]	P_M [kW]	T_2 [Nm]	F_{axW} [kN]	P_M [kW]	T_2 [Nm]	F_{axW} [kN]	P_M [kW]	T_2 [Nm]	F_{axW} [kN]
n_2 [rpm]													
300	49	1.490	27	94	2.870	45	143	4.360	58	290	8.856	101	300
350	57	1.490	27	110	2.870	45	166	4.360	58	338	8.856	101	350
400	65	1.490	27	125	2.870	45	190	4.360	58	386	8.856	101	400
450	73	1.490	27	141	2.870	45	214	4.360	58	435	8.856	101	450
500	81	1.490	27	157	2.870	45	238	4.360	58	483	8.856	101	500
550	89	1.490	27	172	2.870	45	262	4.360	58	531	8.856	101	550
600	97	1.490	27	188	2.870	45	285	4.360	58	580	8.856	101	600
650	103	1.454	27	199	2.800	45	302	4.257	58	613	8.645	101	650
700	109	1.422	27	209	2.740	44	318	4.163	58	646	8.456	98	700
800	119	1.368	27	230	2.633	43	349	4.001	57	709	8.123	95	800
900	129	1.319	27	249	2.598	41	379	3.861	55	770	7.844	91	900
1.000	139	1.278	27	268	2.462	40	408	3.740	53	829	7.596	88	1.000
1.100	149	1.242	27	287	2.394	39	436	3.636	52	886	7.385	86	1.100
1.200	158	1.211	27	305	2.331	38	464	3.542	50	941	7.191	84	1.200

BASICLINE

Since 1972, when HENSCHEL started the production of twin shaft extruder gearboxes, the DURUMAX® series always has been setting trends with its state-of-the-art technology. At any time the HENSCHEL twin shaft extruder gearboxes met current requirements in torque ratings, efficiency and reliability (Fig. 1). Nevertheless there are a lot of markets which are focused on the price level instead of latest technology. To support these markets HENSCHEL Antriebstechnik has developed the "BASICLINE" series with medium power ratings. This series is based on the design of the standard DURUMAX® gearboxes and with this compatible in the installation dimension. This ensures an easy upgrade with the standard series if higher power ratings are required.

- Reliable design with a step-down gear with three-stage or four-stage spur gears and power divider with a double helical gear set
- Compatible to the DURUMAX® standard series
- Brand name thrust bearings to pick up the highest thrust forces from the extrusion process
- Direct or V-belt drive
- Cylinder and screw connections according to customer requirements
- Paintwork: priming paint



- Information to the tables:
- Define your specific centre distance in the power rating table.
 - Select the output speed n_2 you require.
 - Look for the required motor power P_M or your output torque T_2 in the selected line.
 - Take the gearbox size you have selected and confirm whether or not the installation dimensions suit your extruder by referring to the geometry table.
 - If you are not able to find your requirements, our gearbox engineers will design your gearbox and its limiting criteria.