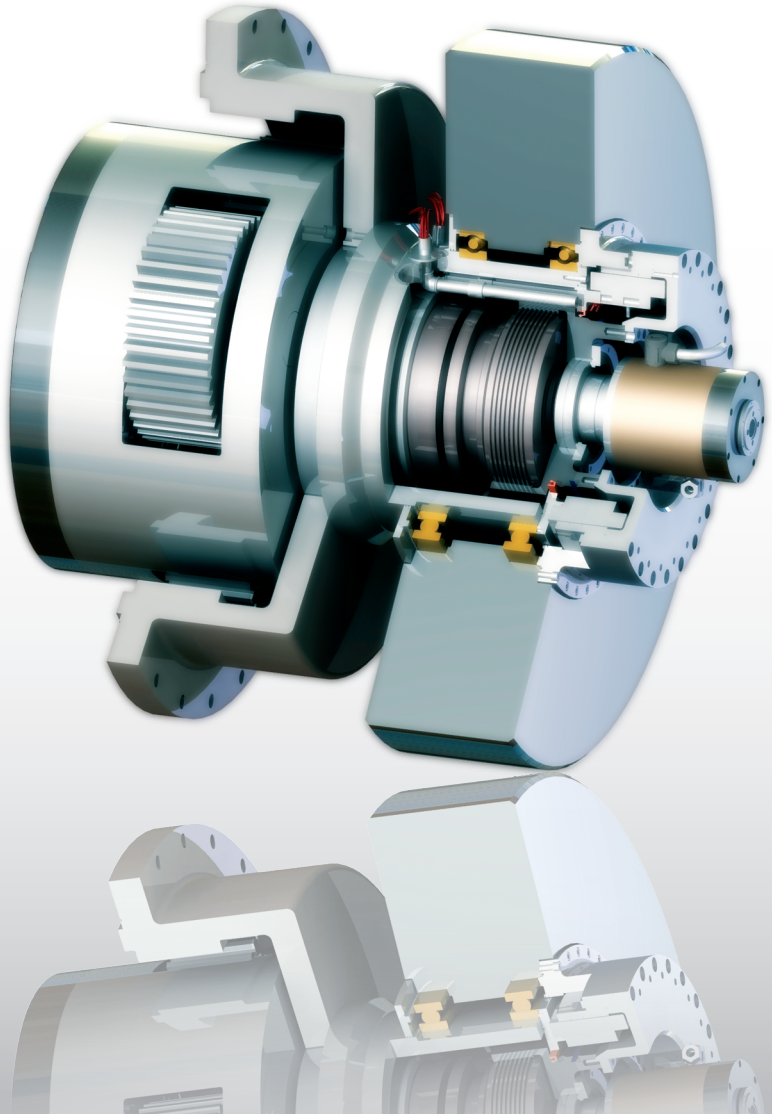
Smart Drive
Solutions

DESCH

DESCH
Complete Press Drive

KAE with Flywheel Direct Drive



KE 12 - GB

DRIVE TECHNOLOGY

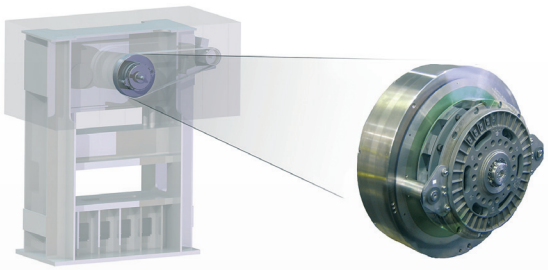
DESCH Complete Press Drive
KAE with Flywheel Direct Drive

This flywheel direct drive represents an enhancement of the tried-and-tested DESCH standard complete press drive.

A torque motor is integrated into the flywheel, which functions virtually free from wear and provides the highest power density even in the smallest space. This benefits the press manufacturer by being able to dispense with the previous motor, the motor mounting plate and the belt drive. This simplifies the design of the press and saves assembly time.

The speed reduction of the flywheel - due to the energy extraction during the forming process - is accelerated by the highly-dynamic torque motor back to the nominal speed required within the shortest time. Loss of effectivity and running noises due to the flat belt become obsolete.

By integrating the motor into the flywheel, the connection dimensions of the DESCH standard series are retained.



A torque motor is integrated into the flywheel. No motor bracket and belt drive is necessary.

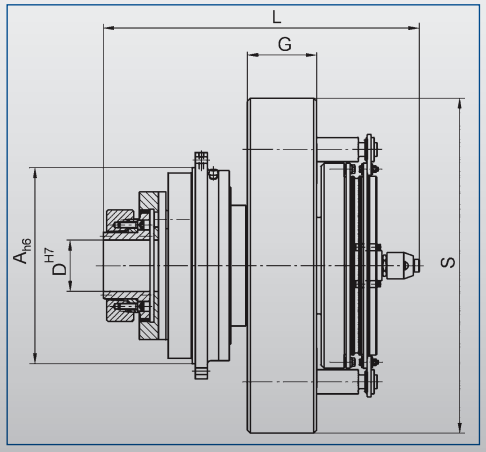
Benefits

- wear and maintenance-free drive
- lower noise level
- no belt drive necessary => more economical machine design
- no motor bracket and belt transmission necessary
- compact, simple construction
- small protective cover
- FEM-supported component optimisation
- over 50 years of experience in constructing planetary gears

KAE 850 /8/HKHB 800/Z

KAE size	T_{ab} Nm	A h6	D H7	G mm	L ~ i=4 i=6 mm	Primary flywheel diameter S with allocated moment of inertia J									
						S mm	J kgm²	S mm	J kgm²	S mm	J kgm²	S mm	J kgm²	S mm	J kgm²
16	16 000	430	120	180	783 763	780	50	995	135	1120	217	1210	297	1280	37 2
25	25 000	510	130	200	837 822	800	62	1015	162	1150	268	1250	375	1330	481
40	40 000	580	150	220	993 917	905	111	1065	215	1175	320	1260	424	1330	528
63	63 000	650	170	230	1107 1093	1060	218	1250	427	1380	637	1480	845	1565	1058
100	100 000	730	190	270	1217 1197	1205	431	1355	694	1465	951	1555	1209	1635	1479
160	160 000	820	220	300	1337 1314	1180	431	1325	696	1430	950	1520	1217	1595	1479

An oil circulation lubrication system must be provided for the gearbox. CLP gear oil (DIN 51517 T.3) according to ISO -VG 100 (DIN 51519 T.2) is to be used. Oil quantity in accordance to the calculation of DESCH.



Smart Drive
Solutions

DESCH Antriebstechnik GmbH & Co. KG
Postbox 14 40 | 59753 Arnsberg/Germany
Kleinbahnstraße 21 | 59759 Arnsberg/Germany
T +49 2932 300-268 | F +49 2932 300-442 68
www.desch.de | E info@desch.de

DESCH DPC GmbH & Co. KG
Postbox 14 40
59753 Arnsberg/Germany
Kleinbahnstraße 21
59759 Arnsberg/Germany
T +49 2932 300-0
F +49 2932 300-830
I www.desch.de
E info@desch.de

DESCH Canada Ltd.
240 Shearson Crescent
Cambridge, Ontario
Canada N 1T 1J6
T +1800 2631866
+1519 6214560
F +1519 6231169
I www.desch.de
E desch@desch.on.ca

DESCH Italia
Drive Technology
Ufficio di rappresentanza in Italia
Via Cavriana, 3
20134 Milano/Italy
T +3902 7391280
F +3902 7391281
I www.desch.de
E desch.italia@desch.de

DESCH China
Machinery Sales (Shanghai) Ltd.
Building Nr. 3
No. 388 Minshen Road,
Songjiang Industrial Zone
201612 Shanghai/China
T +86 21 6126-8061
F +86 21 57655155
I www.desch.de
E desch.china@desch.de