



ENZFELDER GmbH

Power transmission-
and
lifting engineering

**Slip Hubs RT
and
Friction Clutch RK**

Slip hubs type RT

RT-slip hubs protect against damage by:

- overload
- shocks and
- machine jams

RT-slip hubs are used for:

- sprockets and gears
- levers
- pulleys and wheels

RT-slip hubs are:

- easily assembled
- practically carefree
- compact and reliable

marketing strategy.

They cost far less than a shutdown of a customer's plant.

The torque is determined by a nut being screwed simultaneously.

The determined torque should be 25 bis 100% of the maximum shown in the tables.

Too high torque will cause too much wear, too little will cause polished friction members, causing unwanted variance in the required torque.

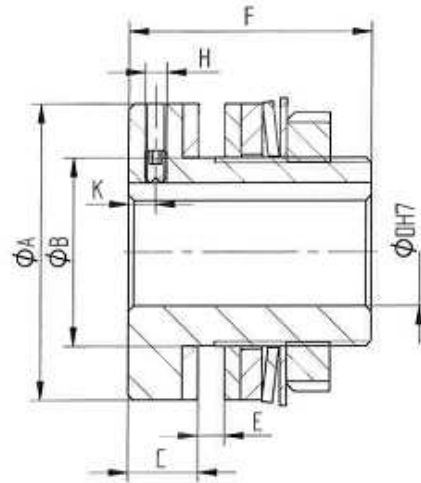
RT-slip hubs must be protected against oil and grease. It is necessary to check the functions from time to time.

Built-in parts are to be ground with a roughness of max. 6 µm.

RT-slip hubs



a positive point in your



Size		RT12	RT20	RT40	RT70	RT120	RT190	RT350	RT630	RT1200	RT1700	RT2400	RT3500	RT5000
$T_{max.}^{1)}$	Nm	12	20	40	70	120	190	350	630	1200	1700	2400	3500	5000
$n_{max.}^{2)}$	min. ⁻¹	800	800	800	600	500	450	410	380	340	320	300	250	220
$\varnothing A$	mm	30	38	45	55	65	75	90	110	140	160	180	210	240
$\varnothing B$ H8	mm	20	25	30	35	40	45	50	60	70	80	80	110	120
C	mm	11	11	11	13	13	15	15	18	18	23	25	25	28
$\varnothing D_{min}^{3)}$	mm	0	0	0	0	0	15	20	20	25	30	35	40	0
$\varnothing D_{max}$	mm	12	15	19	22	25	30	32	40	50	55	65	80	100
E_{min}	mm	3	3	3	4	5	7	8	9	10	11	13	14	16
E_{max}	mm	7	7	9	13	13	15	16	19	22	24	28	30	32
F	mm	33	34	38	48	48	55	60	72	82	95	110	118	130
H		M4	M4	M4	M4	M4	M4	M4	M6	M6	M8	M8	M10	M10
K	mm	4	4	4	5	5	5	5	5	7	10	10	11	12
$m^{4)}$	kg	0,4	0,6	0,9	1,4	1,7	2	2,2	3,3	6,4	9,1	13,4	20,1	24,5
smallest possible chain wheel		number of teeth												
pitch of the chain	6mm	19	23	27	32	37	42	-	-	-	-	-	-	-
	8mm	15	18	21	25	29	32	38	-	-	-	-	-	-
	3/8"	13	16	18	22	25	28	33	39	-	-	-	-	-
	1/2"	11	13	15	17	19	22	25	30	38	-	-	-	-
	5/8"	9	11	12	14	16	18	21	25	31	35	39	-	-
	3/4"	-	9	10	12	14	15	18	21	26	29	33	38	-
	1"	-	-	9	10	11	12	14	17	21	23	26	29	33
	1 1/4"	-	-	-	-	9	10	12	14	17	19	21	24	27
	1 1/2"	-	-	-	-	-	9	11	12	15	17	18	21	23
	1 3/4"	-	-	-	-	-	-	9	11	13	15	16	18	20
2"	-	-	-	-	-	-	9	10	12	13	14	16	18	

Slip couplings type RK

RK-slip couplings work as torquelimiters when connecting two shafts. They consist of a slip hub RT and a chain-coupling.

They allow parallel misalignment of:

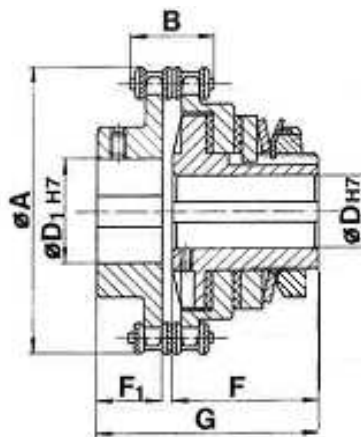
0,2mm RK12 to RK120

0,25mm RK190 to RK1200

0,5mm RK1200 to RK5000

a misalignment of $0,5^\circ$ is tolerable

RK-slip-couplings are practically carefree, they are easy to assemble, to adjust and detach. Only RK-slip-couplings allow pure radial disassembling without axial dislocation of any part.



Size		RK12	RK20	RK40	RK70	RK120	RK190	RK350	RK630	RK1200	RK1700	RK2400	RK3500	RK5000
$T_{max.}^{1)}$	Nm	12	20	40	70	120	190	350	630	1200	1700	2400	3500	5000
$n_{max.}^{2)}$	min. ⁻¹	800	800	800	600	500	450	410	380	340	320	300	250	220
$\varnothing A$	mm	30	38	45	55	65	75	90	110	140	160	180	210	240
$\varnothing B H8$	mm	20	25	30	35	40	45	50	60	70	80	80	110	120
C	mm	11	11	11	13	13	15	15	18	18	23	25	25	28
$\varnothing D_{min}^{3)}$	mm	0	0	0	0	0	15	20	20	25	30	35	40	0
$\varnothing D_{max}$	mm	12	15	19	22	25	30	32	40	50	55	65	80	100
$\varnothing D_{1 min}^{3)}$	mm	8	10	12	12	16	16	16	16	20	25	25	25	25
$\varnothing D_{1 max}$	mm	22	28	32	38	40	43	46	46	58	74	76	90	105
F	mm	33	34	38	48	48	55	60	72	82	95	110	118	130
F_1	mm	16	16	20	20	20	25	30	30	40	50	50	55	65
G	mm	52	53	61	67	70	84	94	105	125	151	168	181	201
$m^{4)}$	kg	0,7	1	1,4	2,1	2,5	3,6	4,6	6	12,1	20,9	29	41,9	55,8

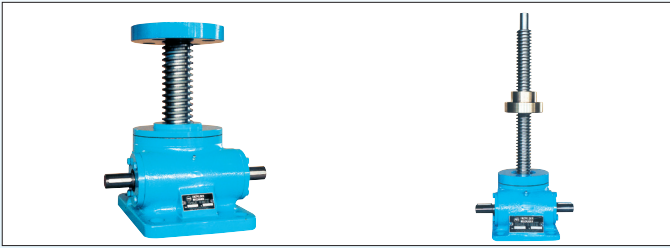
1) max. transmissible torque

2) max. permissible speed

3) prebored; ready bored with std. keyway

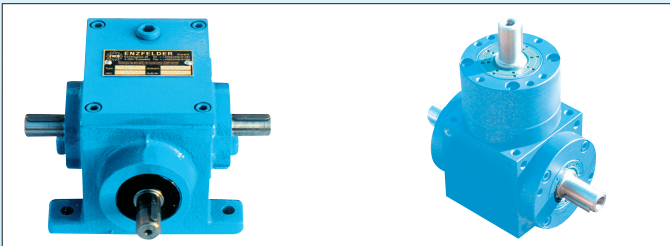
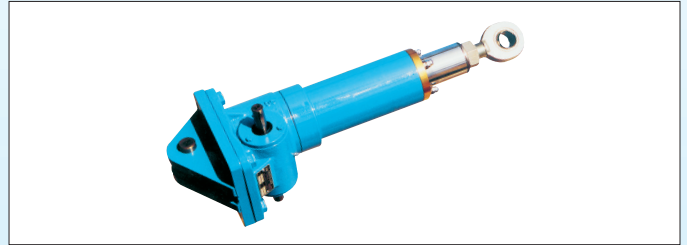
available from stock
4) weight
measurements subject to change

Delivery program



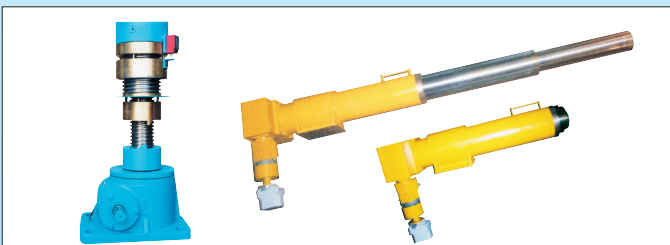
FREN Spindle gear type SG for lifting, lowering, pulling, pushing, swivel, or rotating
Forces up to 3000kN
Lifts up to 10000mm

FREN Electric cylinders type ELZ for lifting, lowering, pulling, pushing, swivel, or rotation
Forces up to 1000kN
Lifts up to 2500mm



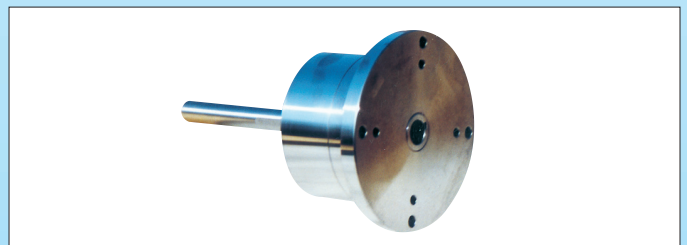
FREN Bevel gears KGT and Bevel gears cubic KGTK for deflecting input shafts
Speeds up to 6500U/min
Torques up to 5200Nm

FREN Resilient cardan shafts for transmitting torques with assembling inaccuracies
Angles up to 3°
Torques up to 500Nm



FREN Telescopic gears and telescopic cylinders type TSG for lifting, lowering, pulling or pushing
Forces up to 1000kN
Lifts up to 10000mm

FREN Planet gears in special designs for reducing speeds and increasing torques
Gear reduction 1,5:1 up to 1500:1
Torques up to 1000Nm



FREN Scissor-type lifting platforms for lifting and lowering including a wide range of accessories with hydraulics cylinder or spindle
Forces up to 500kN
Lifts up to 5000mm

FREN Cable winches for lifting, lowering, pulling or swivel
Forces up to 300kN
Lifts up to 100000mm

