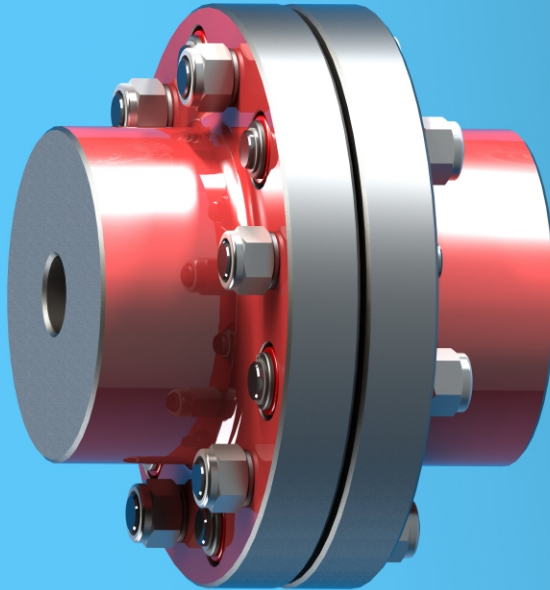
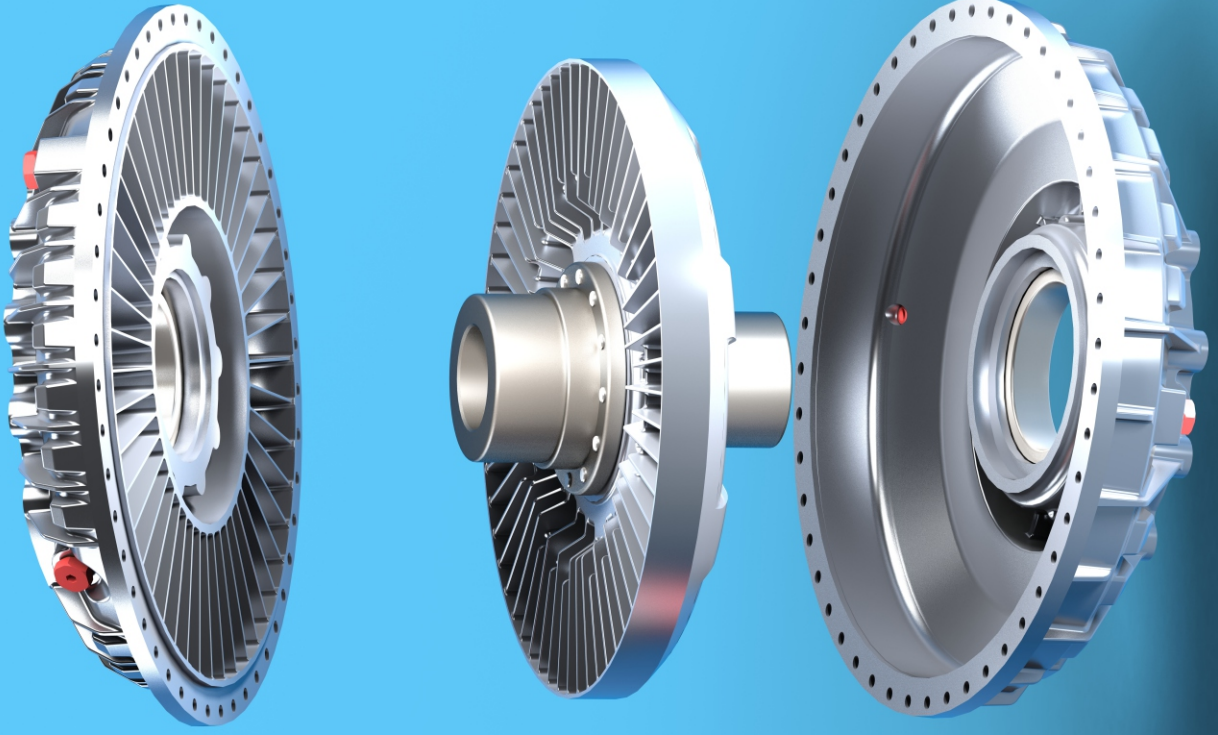


TURBO HİDROLİK

KAPLİN MAKİNA SANAYİ TİCARET LİMİTED ŞİRKETİ

HYDRAULIC COUPLING, FLEXIBLE COUPLING AND VARIATORS

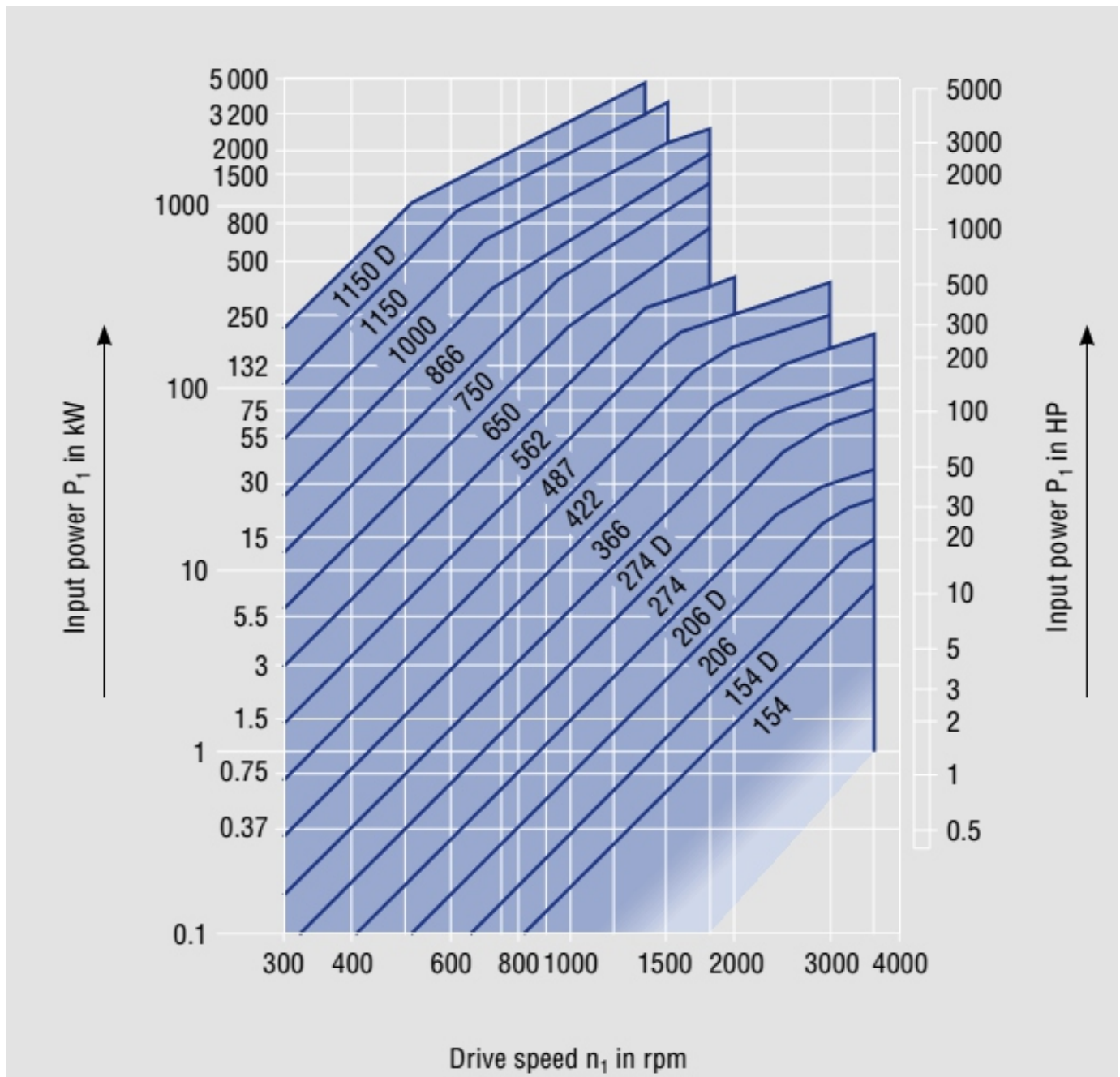


WE ARE EXPERT OF WHAT WE DO AND WHAT WE KNOW

Selection Of Coupling Type (Based on Power and RPM)

Coupling size and type can be depend on power and rpm. For the detailed offer, types and features of all parts of the machines (drive and driven) have to be forwarded.

Type AK and Type BAK Hydraulic couplings are mounted on drive machine's shaft. Hydraulic couplings with pulley mechanism are linked to an parallel axial (on driven machine) with "V-belts" or "Flat-belts" are rotating the pulley on the drive machine.

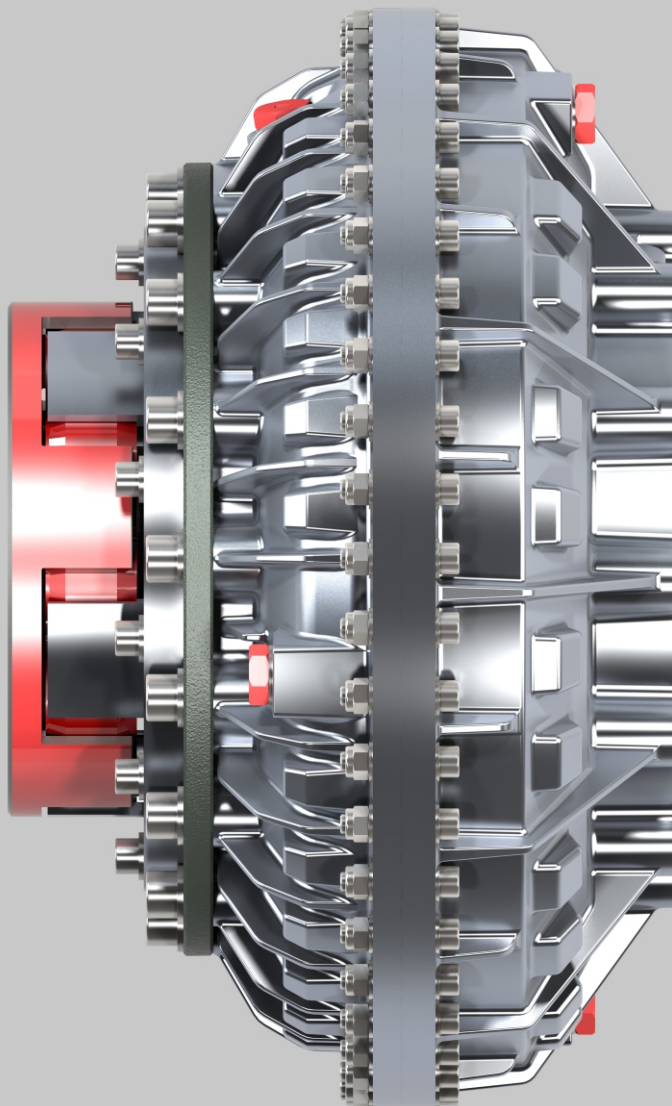


Note : You can find the value you want as coincide the "drive motor power" with "rpm" in diagram.

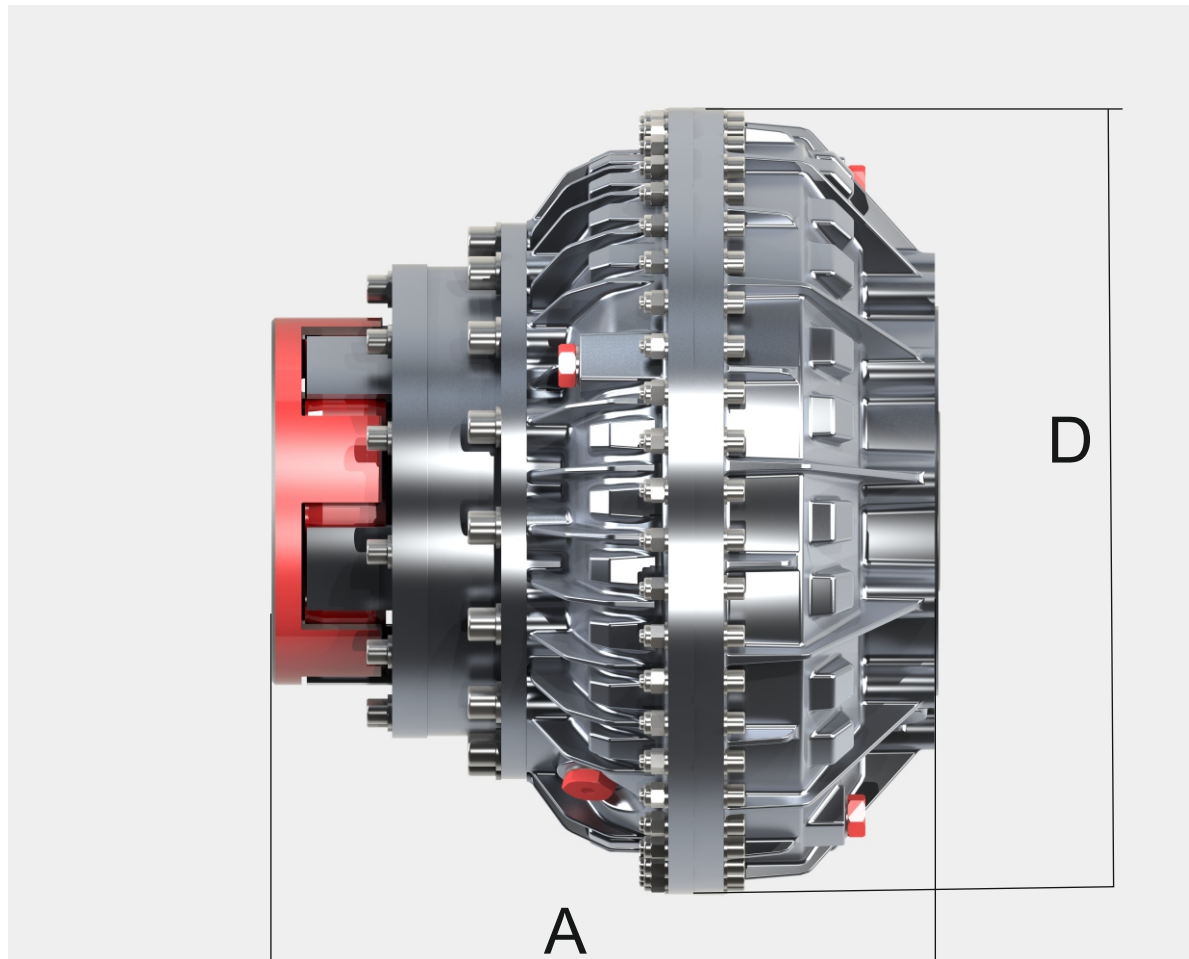
HYDRAULIC COUPLINGS

Turbo Hydraulic Couplings are fluid couplings that link the drive machine with driven machine, soft and clear. It is indispensable to use hydraulic couplings if you should need high powers, reliability and economy.

Turbo Hydraulic Couplings Without Clutch Delay Section; generally use if need vibration absorbtion and protection under overloading. This type of coupling puts in coaxial shafts. Generally hydraulic couplings are mounted on driven machine's shaft with a flexible coupling that absorbes slight mismatches are caused from assembtion. If necessary can be mounted on drive machine's shaft.

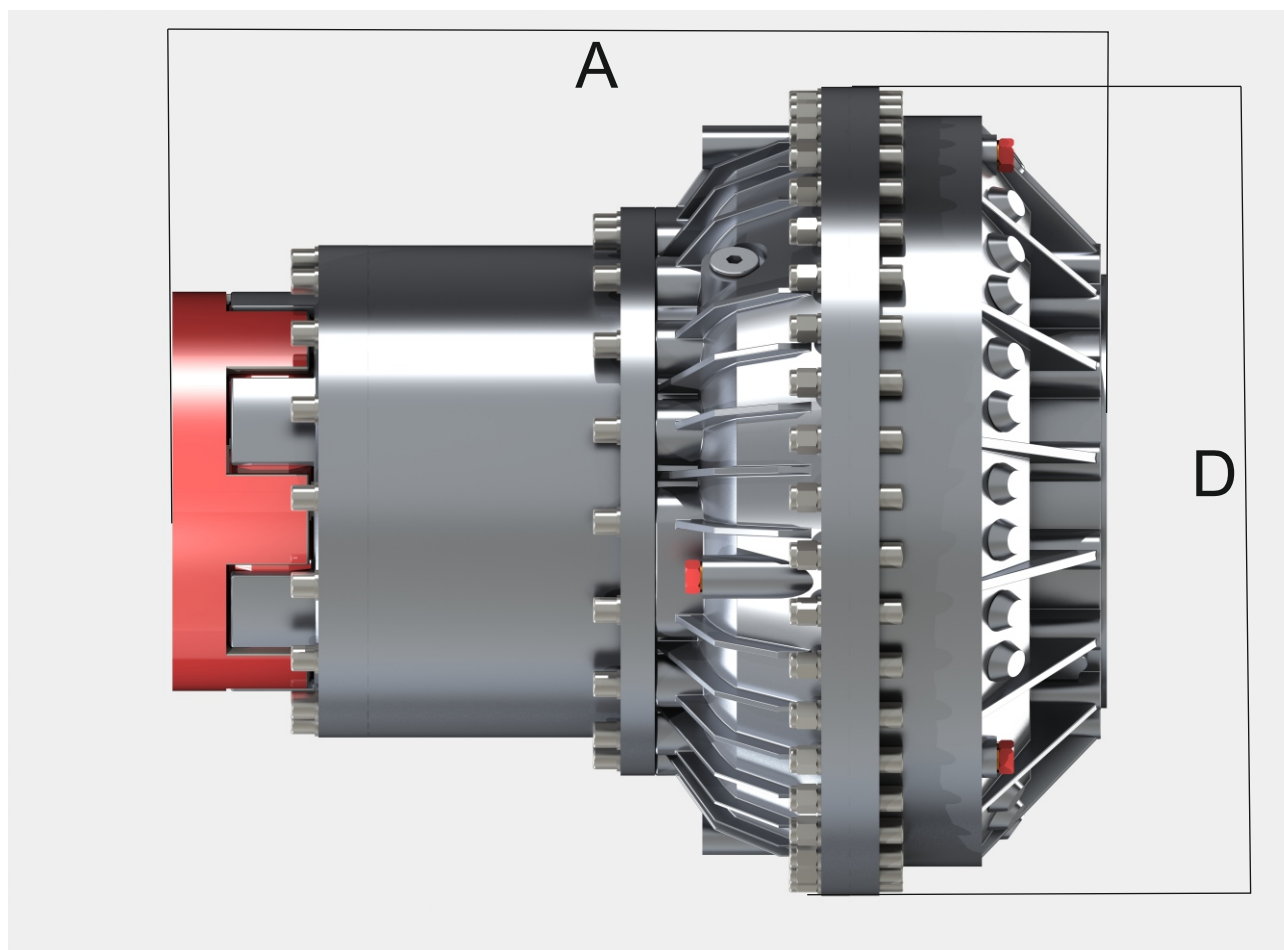


Turbo Hydraulic Couplings With Standart or Double Clutch Delay Section; are used when need to soft starting the motor while starting the hard start machines and high inertial forces. It helps to pass inrush current under low strain. Generally it is mounted on driven machine's shaft with a flexible coupling that absorbes slight mismatches are caused from assembltion. If necessary can be mounted on drive machine's shaft. The Clutch delay sizes can be vary by your delay needs.



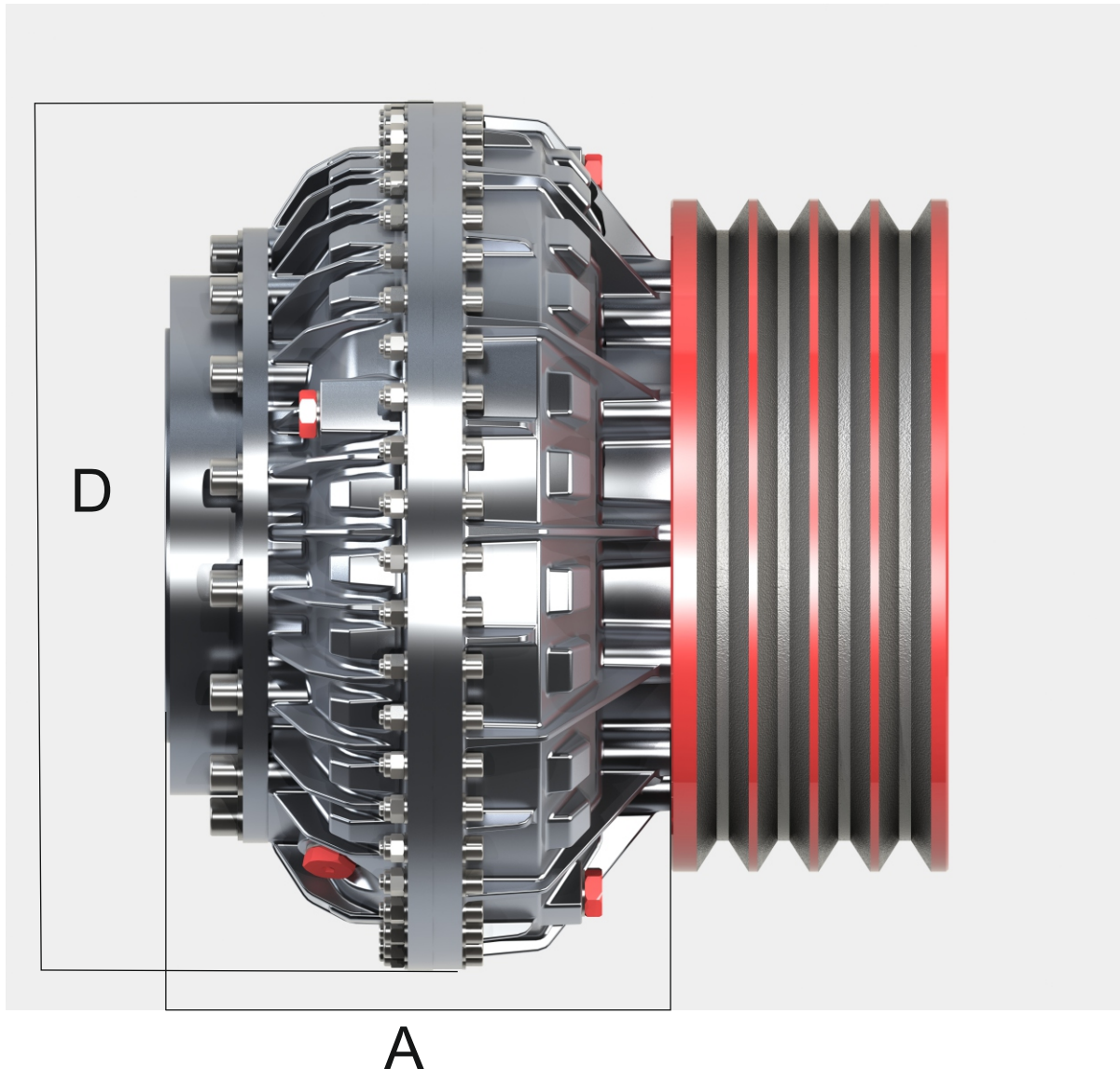
Coupling Types		D mm	d max mm	THKA	
				A mm	Weight
THKA	315	361	50	285	38 Kg
THKA	366	424	55	295,5	42 Kg
THKA	422	470	65	335	60 Kg
THKA	487	556	80	382	90 Kg
THKA	562	634	90	428	130 Kg
THKA	650	740	120	494	220 Kg
THKA	750	850	135	567	330 Kg
THKA	866	980	150	641	480 Kg
THKA	1000	1120	160	686	660 Kg
THKA	1160	1290	180	883	980 Kg

Hydraulic Couplings With Double Clutch Delay Section



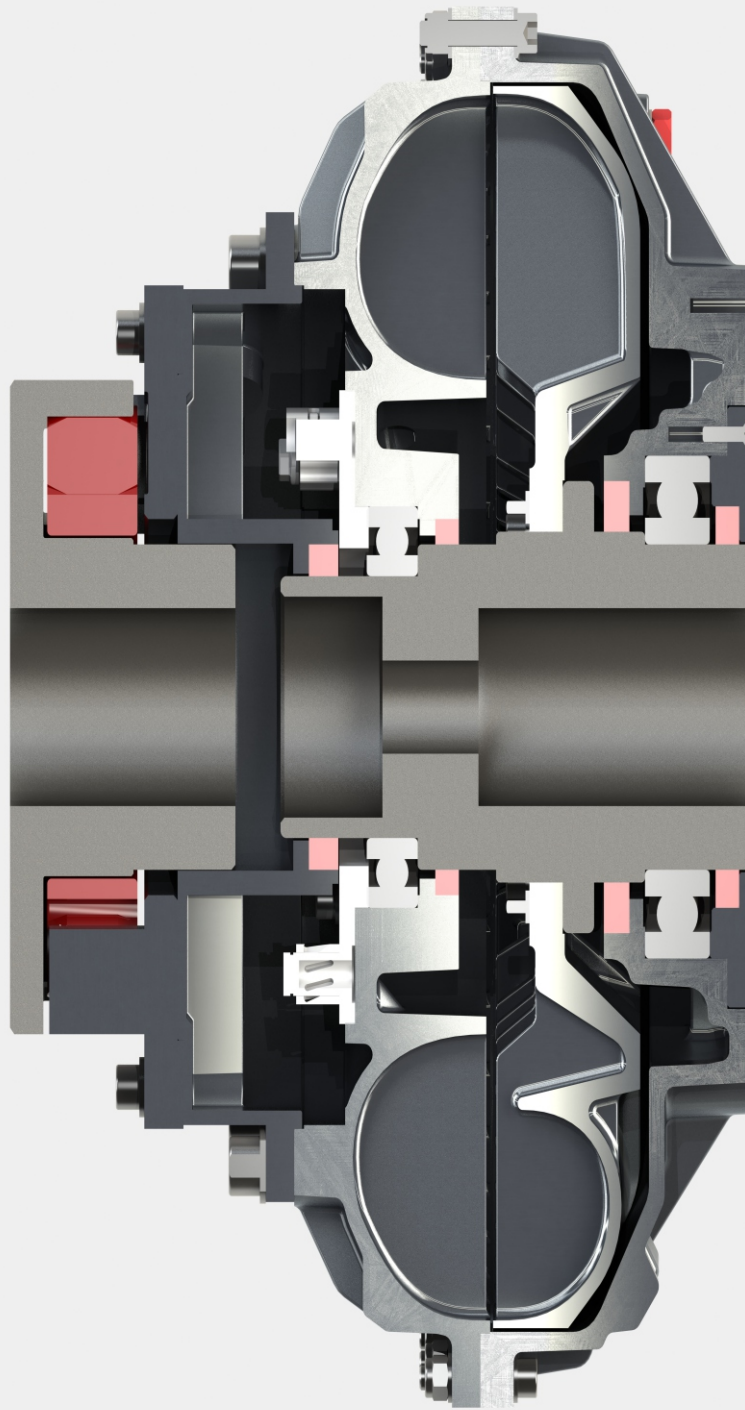
Coupling Type		D mm	d max mm	THKAA	
				A mm	Weight
THKAA	315	361	50	285	35 Kg
THKAA	366	424	55	295,5	42 Kg
THKAA	422	470	65	335	60 Kg
THKAA	487	556	80	382	90 Kg
THKAA	562	634	90	428	130 Kg
THKAA	650	740	120	494	220 Kg
THKAA	750	850	135	567	330 Kg
THKAA	866	978	150	641	480 Kg
THKAA	1000	1118	160	686	660 Kg
THKAA	1160	1290	180	883	840 Kg

Turbo Hydraulic Couplings With Pulley and Clutch Delay Section; is adaptable for all models. It supports starting and it care the system for overload (with delay section). It is matched to the drive machine . Input and output speed ratio is provided in the parallelism of the axis. Bearing cap designs allows easy changing of the belts when alternative speed ratios needed.



Coupling Type		D mm	d max mm	THKAK	
				A mm	Weight(with pulley)
THKAK	315	361	50	205	30 Kg
THKAK	366	424	55	225	42 Kg
THKAK	422	470	65	257	60 Kg
THKAK	487	556	80	297	90 Kg
THKAK	562	634	90	333	130 Kg
THKAK	650	740	120	384	220 Kg
THKAK	750	850	135	440	330 Kg

Turbo Hydraulic Couplings With Regulator and Clutch Delay Section; is a hydraulic coupling type that have a regulator makes oil aktive from passive state by sentrifugal force and rpm, in the clutch delay section. It provides that the oil is aktivated delayed. This delay helps the systems ,are working under high inertial moment, pass the inrush current under low strain.



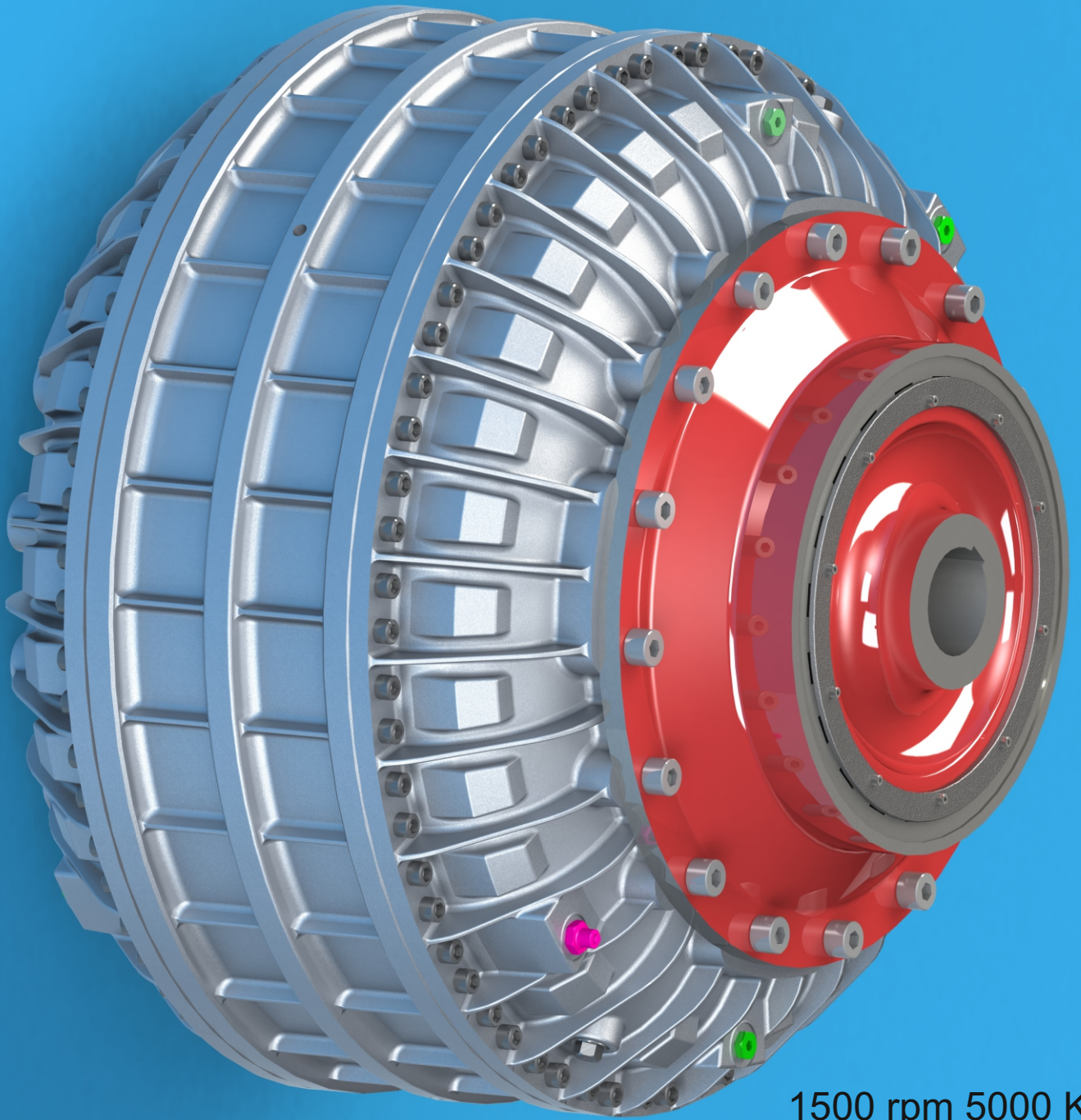
We produce hydraulic couplings in many different types from 1kW to 5000 kW

Using Areas Of Our Products:

- * **Material Transport Systems:** Conveyors with belts, bridge cranes, marine shipment systems
- * **Mining:** Conveyors with chain and armor, bucket elevators, breakers, pumps, gallery riding machines
- * **Mine Processing Machines:** Crushers, grinders, forming and elimination machines, calibrators
- * **Chemical Industry:** Centrifugal pumps, blowers, mixers, compressors, selectors
- * **Mechanical Industry:** Confection Machines, wire drawing machines, extruder, machine tools producer, pumping and balance machine
- * **Transportation:** Tractors, stackers, carriages
- * **Iron And Steel Industry:** Conveyors, mixers, rollers
- * **Marine:** Propulsion systems
- * **Thermal Power Plants**
- * **Mineral Grinding Ball Mills**
- * **Electric Motors Run Under High Inertial Moments And Inrush Current**
- * **Concrete Plates**

FIRST IN TURKEY

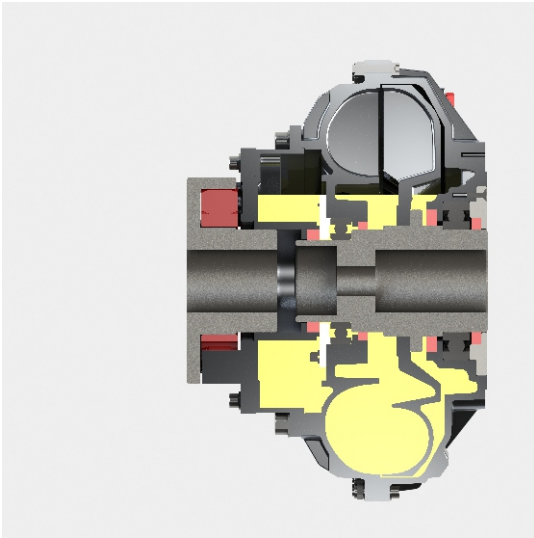
THKADTB 1160



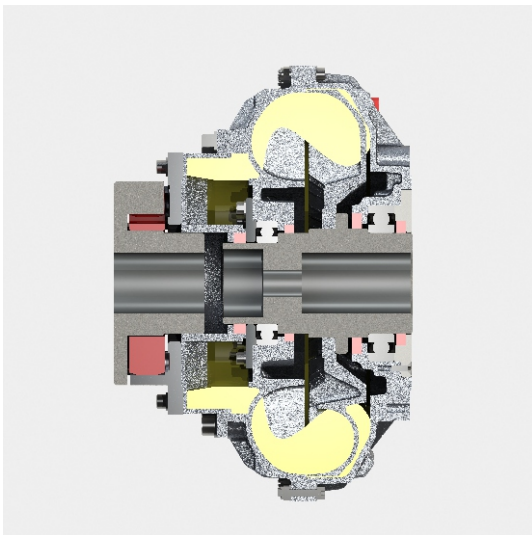
Power Transmission By The Rev.

1500 rpm 5000 Kw
1000 rpm 2500 Kw
800 rpm 2000 Kw
500 rpm 925 Kw

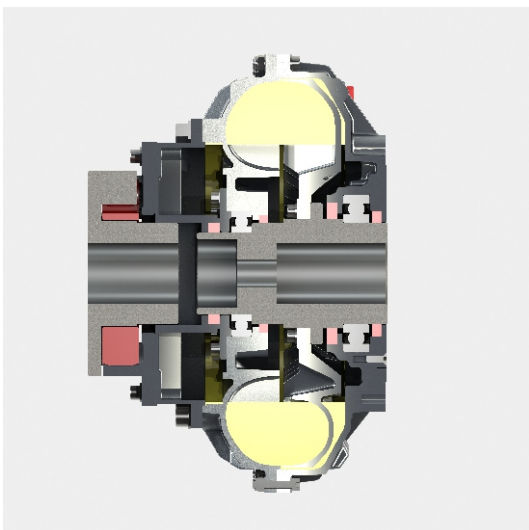
Turbo Hydraulic Coupling Working Positions



1. Stop Position

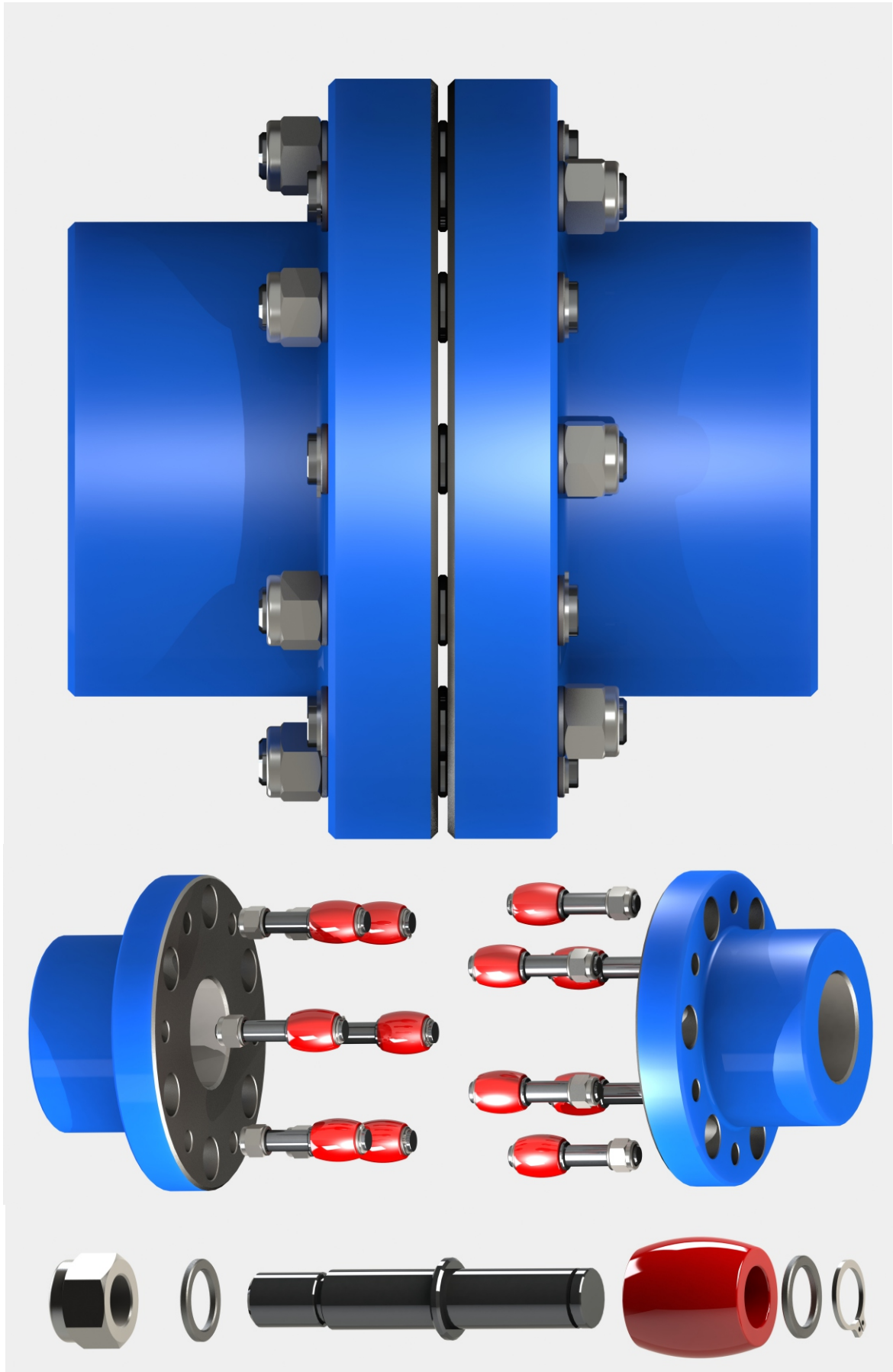


2. Starting Position

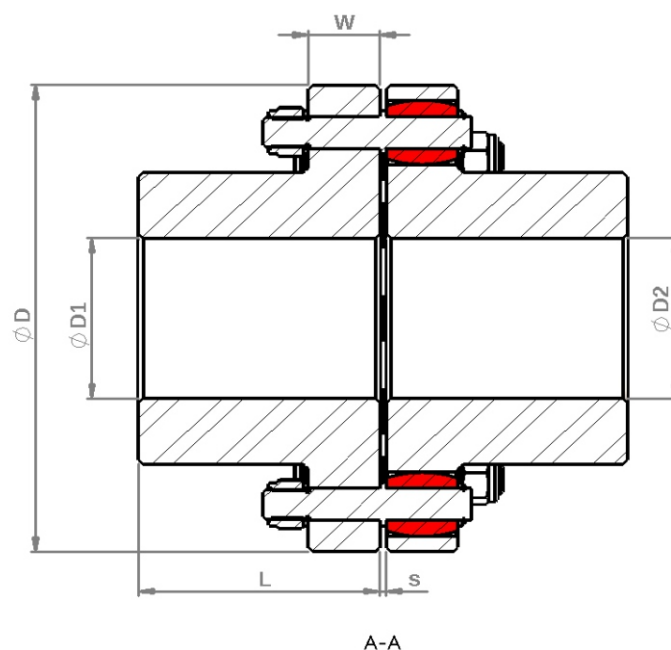


3. On Work Position

PERNO COUPLINGS

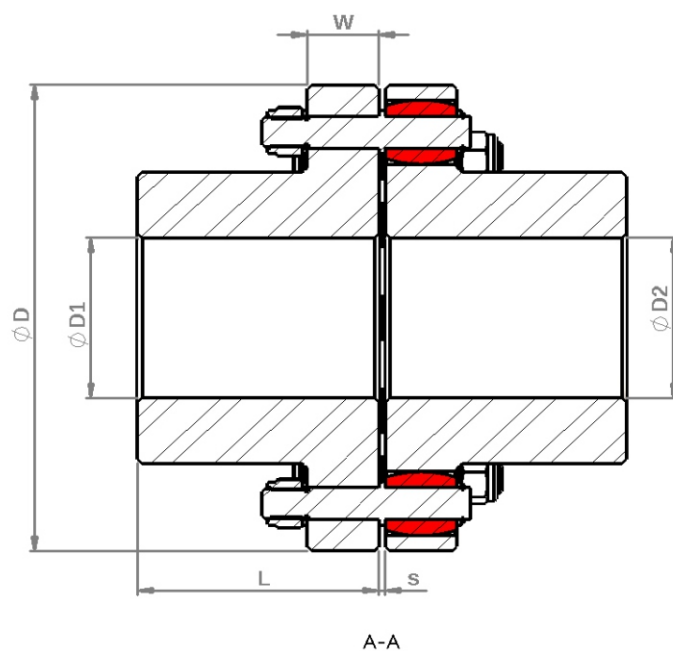


PERNO COUPLING TYPES



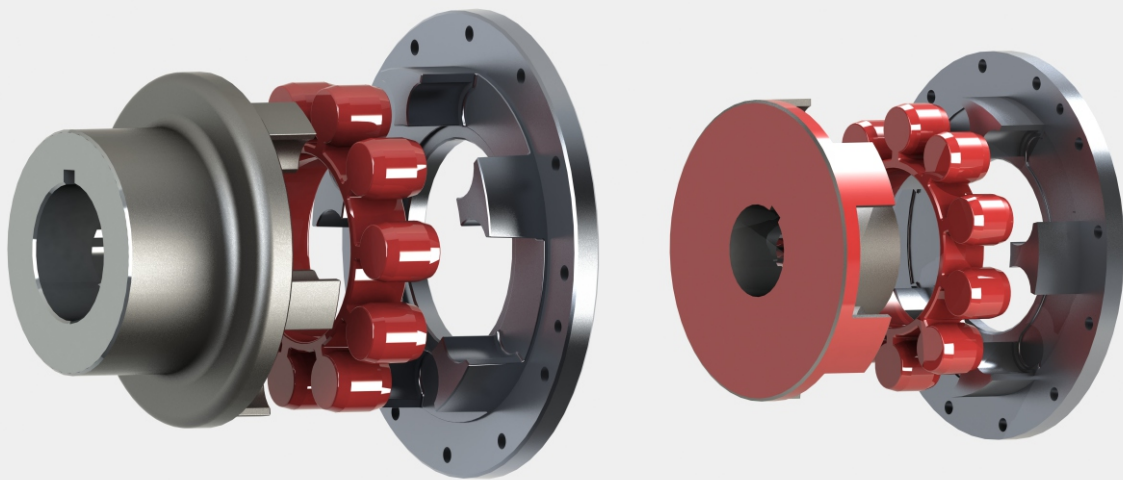
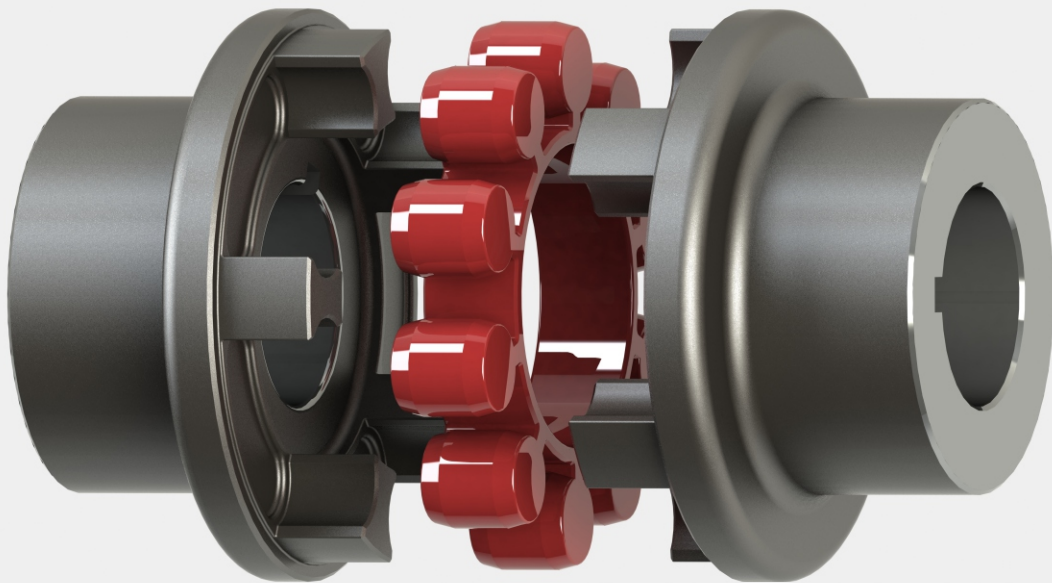
Coupling Type	D1 min	D1 max	D2 max	D mm	L mm	W mm	s mm	Moment T Nm	Max Rpm	Perno Type	Perno Piece
105	-	32	38	105	45	20	2...4	200	5 000	ASF1	10
125	-	40	48	125	50	20	2...4	350	5 000	ASF1	12
144	-	45	55	144	55	20	2...4	500	4 900	ASF1	16
162	-	50	60	162	60	28	2...5	750	4 300	ASF2	10
178	-	60	70	178	70	28	2...5	950	3 800	ASF2	12
198	-	70	80	198	80	28	2...5	1 300	3 400	ASF2	14
228	-	80	90	228	90	36	2...5	2 200	3 000	ASF3	12
252	38	90	100	252	100	36	2...5	2 750	2 700	ASF3	14
285	48	100	110	285	110	36	3...6	4 300	2 400	ASF3	16
320	55	110	120	320	125	46	3...6	5 500	2 100	ASF4	12
360	65	120	130	360	140	46	3...6	7 800	1 900	ASF4	14
400	75	140	140	400	160	58	3...6	12 500	1 700	ASF5	12
450	85	160	160	450	180	58	4...7	18 500	1 500	ASF5	14
500	95	180	180	500	200	67	4...7	25 000	1 350	ASF6	14

PERNO COUPLING TYPES

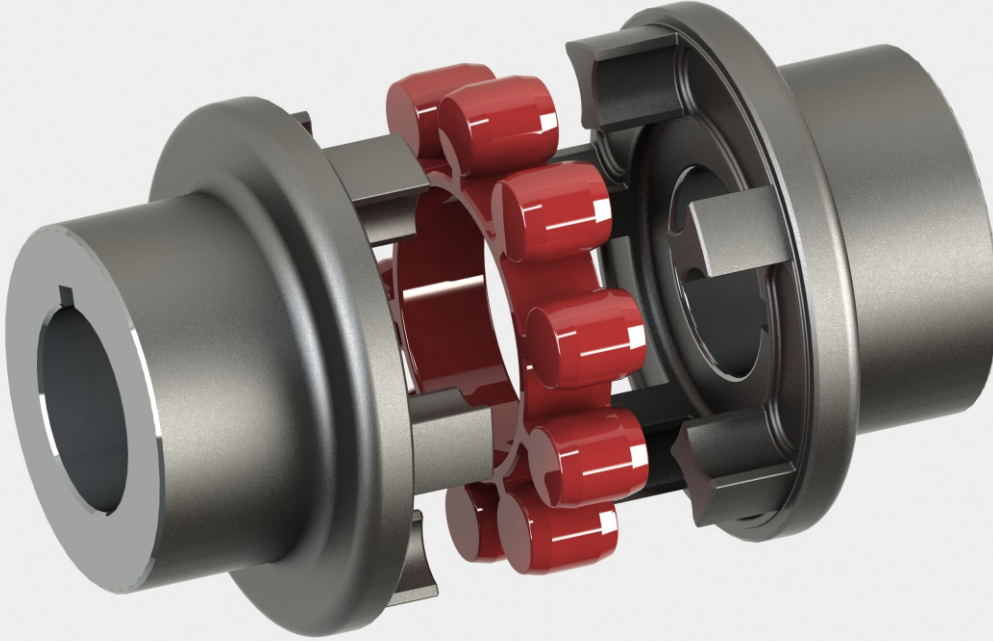


Coupling Types	D1 min	D1 max	D2 max	D mm	L mm	W mm	s mm	Moment T Nm	Max Rpm	Perno Type	Perno Piece
560	100	200	200	560	220	67	4...8	39 000	5 000	ASF6	16
630	100	200	200	630	240	82	4...8	52 000	5 000	ASF7	14
710	110	240	240	710	260	82	4...8	84 000	4 900	ASF7	16
800	125	260	260	800	290	82	4...8	110 000	4 300	ASF7	18
900	140	290	290	900	320	102	5...1	150 000	3 800	ASF8	16
1000	150	320	320	1000	350	102	5...1	195 000	3 400	ASF8	18
1120	160	350	350	1120	380	102	5...1	270 000	3 000	ASF8	22
1250	180	380	380	1250	420	102	5...1	345 000	2 700	ASF8	26
1400	200	440	440	1400	480	102	6...1	530 000	2 400	ASF8	30
1600	260	480	480	1600	540	102	6...1	750 000	2 100	ASF8	34
1800	320	540	540	1800	600	125	6...1	975 000	1 900	ASF9	36
2000	380	600	600	2000	660	125	6...1	1 300 000	1 700	ASF9	42

FLEXIBLE COUPLING TYPES

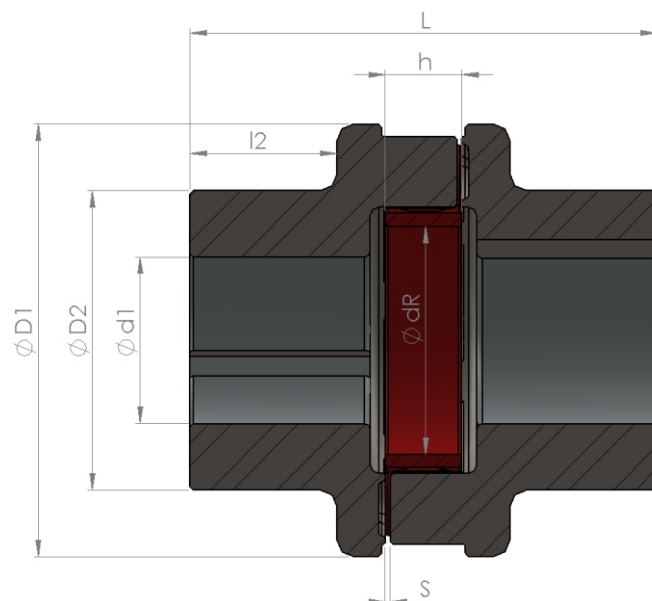


THS THLS FLEXIBLE COUPLINGS



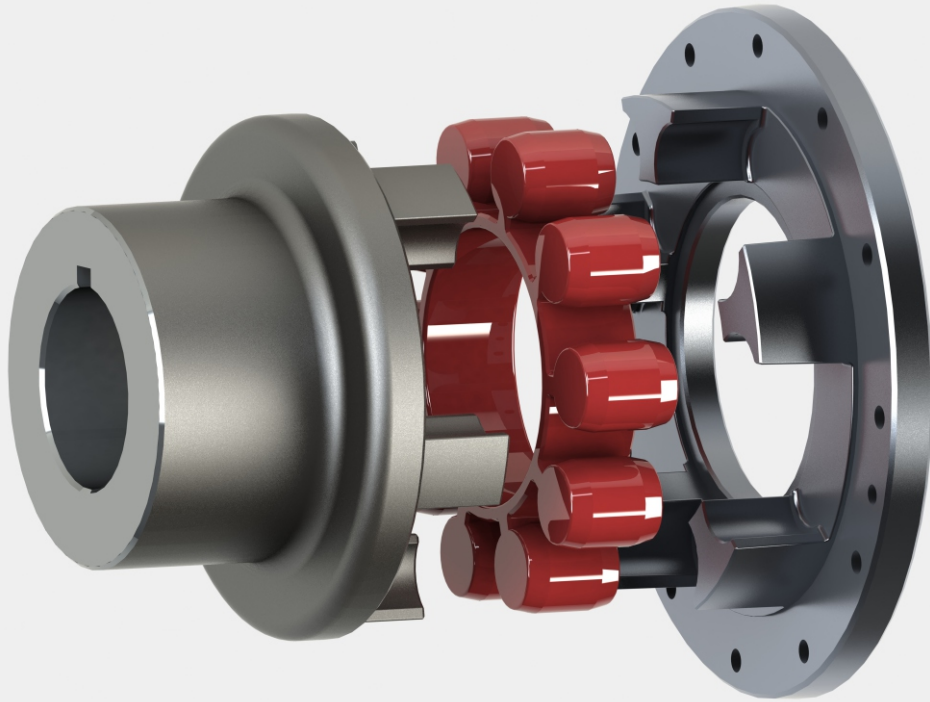
COUPLING TYPE		TORQUE		SPEED HIZ n_{MAX} [min-1]	TOTAL WEIGHT TOPLAM AĞIRLIK [Kg]
		T_{KN} [NM]	T_{KMAX} [NM]		
THS THLS	50	15	40	15000	0,7 0,9
THS	70	55	160	11000	1,6
THS THLS	85	75	225	9000	2,6 4,1
THS THLS	100	130	395	7250	4,0 5,6
THS THLS	125	250	750	6000	7,0 11,8
THS THLS	145	400	1200	5250	10,0 15,4
THS THLS	170	630	1900	4500	16,5 28,0
THS THLS	200	1100	3300	3750	28,6 37,8
THS THLS	230	1700	5150	3250	40,0 56,4
THS THLS	260	2650	7950	3000	57,5 80,2
THS	300	3900	11700	2500	84
THS	360	6500	19500	2150	134
THS THLS	400	8900	26700	1900	133,0 144,0

THS THLS FLEXIBLE COUPLINGS SIZE



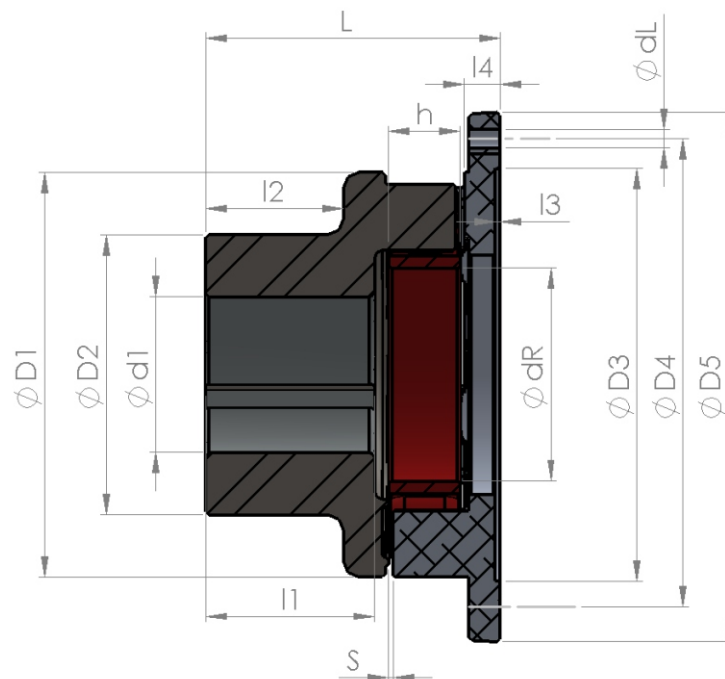
TYPE	Model	d ₁ max mm	D ₁	D ₂	L	l ₁	l ₂	S	h	d _R
THS THLS	50	25	50	41 42	75 96	30 40,5	23,5 34,0	2 ... 4	12	19
THS	70	38	70	55	100	38,5	31,5	2,5 ... 3	18	26
THS THLS	85	40	85	60	110 184	43,5 80,5	35,0 72,0	2,5 ... 4	18	38
THS THLS	100	42	100	65	125 187	49,5 80,5	37,5 68,5	3 ... 5	20	42
THS THLS	125	55	125	85	145 253	56,5 110,5	44,0 98,0	3,5 ... 6	25	54
THS THLS	145	65	145	95	160 259	61,0 110,5	47,5 97,0	4 ... 6,5	30	66
THS THLS	170	85	170	120	190 321	75 140,5	60,5 126,0	5 ... 8	30	90
THS THLS	200	95 85	200	135 120	245 328	99,0 140,0	79,5 124,0	6 ... 9	35	100
THS THLS	230	105	230	150	270 390	110,0 170,0	88,5 151,0	7 ... 10	35	115
THS THLS	260	125	260	180	285 400	112,5 170,0	88,5 146,0	7 ... 11	45	150
THS	300	140	300	200	300	131,5	107,5	7 ... 11	50	162
THS	360	150	360	210	417	172,0	140,0	7 ... 12	55	215
THS THLS	400	160	400	225	400 440	163,5 183,5	137,0 157,0	7 ... 12	55	250

THX THLX FLEXIBLE COUPLINGS



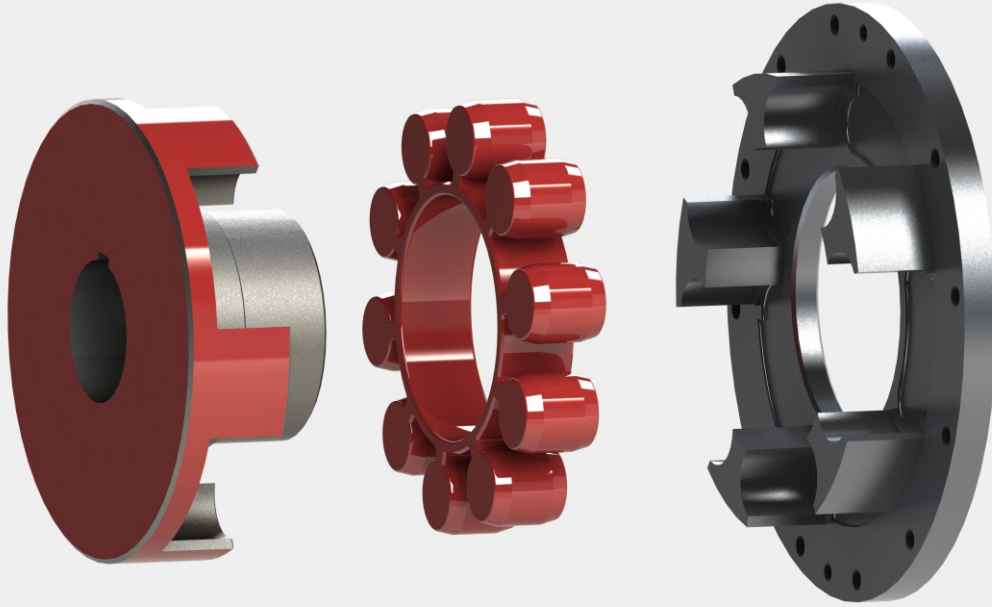
COUPLING TYPE		TORQUE		SPEED HIZ n_{MAX} [min-1]	TOTAL WEIGHT TOPLAM AĞIRLIK [Kg]
		T_{KN} [NM]	T_{KMAX} [NM]		
THX	100	70	210	7250	2,5
THX	125	128	385	6000	4,2
THX	145	220	660	5250	6
THX	170	340	1020	4500	9,6
THX	200	590	1770	3750	16,3
THX	230	900	2700	3250	22,7
THX	260	1400	4200	3000	33,1
THX	300	2090	6270	2500	49,4
THX	360-650 360-750	3450	10350	2150	79,7 83,4
THX	400	4750	14250	1900	81,8 85,6
THX	400 -866	4750	14250	1900	81,8 85,6
THX	400 -1000	4750	14250	1900	81,8 85,6
THX	400 - 1150	4750	14250	1900	81,8 85,6

THX - THLX FLEXIBLE COUPLINGS



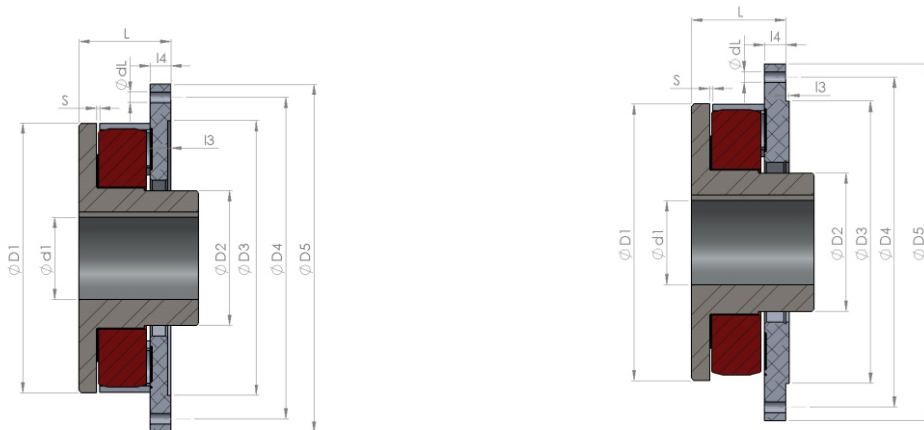
TYPE	MODEL	d ₁ max mm	D ₁	D ₂	D ₃	D ₄	D ₅	Z ₅ x dL	L	l ₁	l ₂	l ₃	l ₄	S	h	d _R
THX	100	42	105	65	100	128	145	6x9	84,5	49,5	37,5	2	10	3,0	20	42
THX	125	55	125	85	130	148	170	6x9	97,0	56,5	44,0	2	10	3,5	25	54
THX	145	65	145	96	150	172	194	6x9	109,0	61	47,5	4	12	4,0	30	66
THX	170	85	170	120	170	196	220	6x13,5	126,5	75	60,5	4	14	5,0	30	90
THX	200	95	200	136	195	225	250	8x13,5	156,5	99	79,5	4	14	6,0	35	100
THX	230	105	230	150	220	265	290	8x13,5	171,0	110,0	88,5	4	15	7,0	35	115
THX	260	125	260	180	265	315	335	12x13,5	187,5	112,5	88,5	4	18	7,0	45	150
THX	300	140	300	200	315	360	385	16x13,5	218,5	131,5	107,5	4	24	8,0	50	162
THX THLX	360 - 650 360 - 750	150	350	210	360 420	420 480	455 514	16x17,5 20x17,5	271,5 273,5	172,0	140,0	5	28 30	7,5	55	215
THX THLX	400	160	400	225	420	480	514	20x17,5	265,0 285,0	163,5 183,5	137,0 157,0	5	30	7,5	55	250
THX THLX	400 - 866	160	400	225	485	555	595	12x22	265,0 285,0	163,5 183,5	137,0 157,0	6	30	7,5	55	250
THX THLX	400 - 1000	160	400	225	580	656	690	16x22	268,0 288,0	163,5 183,5	137,0 157,0	6	30	7,5	55	250
THX THXL	400 - 1150	160	400	225	770	840	890	16x30	262,0 282,0	163,5 183,5	137,0 157,0	6	27	7,5	55	250

THV FLEXIBLE COUPLINGS



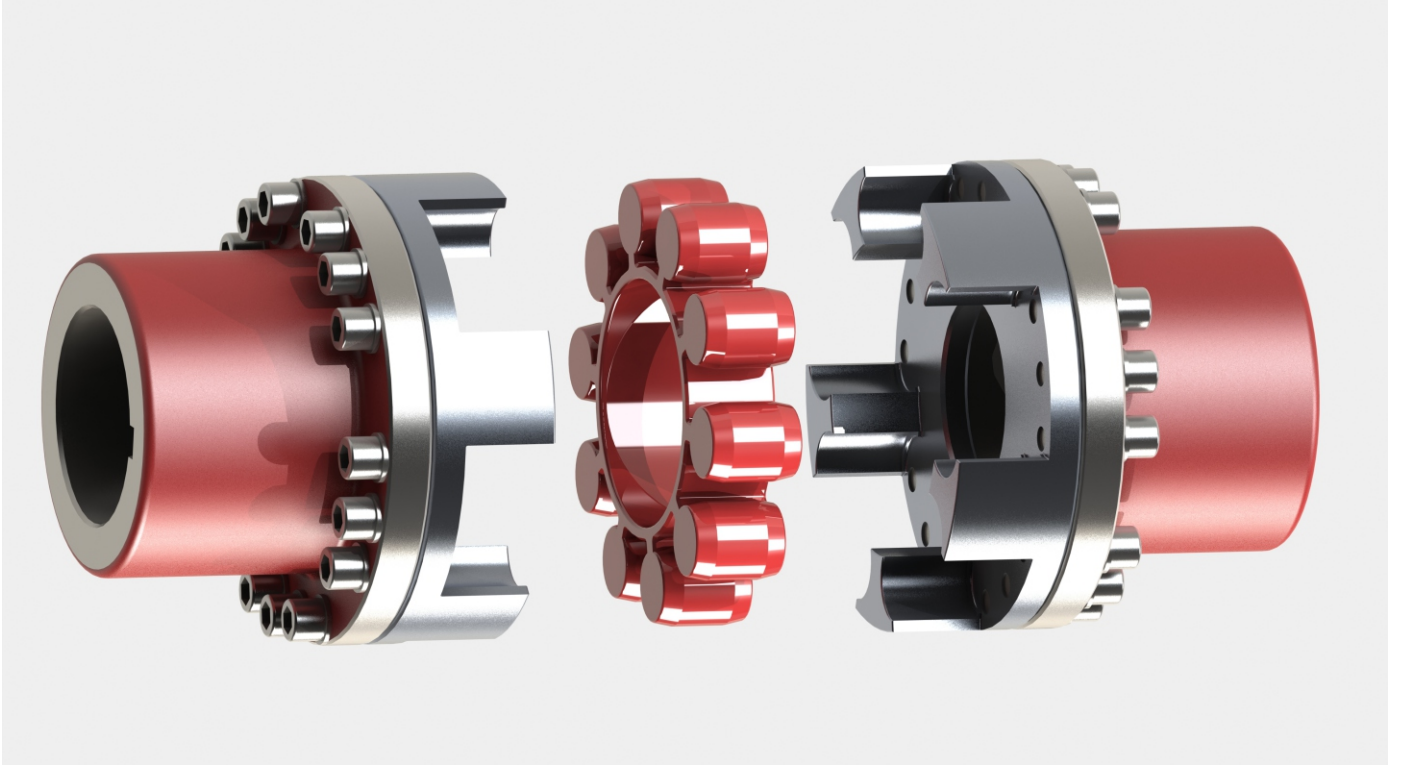
COUPLING TYPE		TORQUE		SPEED HIZ n_{MAX} [min-1]	TOTAL WEIGHT TOPLAM AĞIRLIK [Kg]
		T_{KN} [NM]	T_{KMAX} [NM]		
THV	70	70	210	7250	1,6
THV	125	128	385	6000	2,6
THV	145	220	660	5250	4,4
THV	170	340	1020	4500	6,4
THV	200	590	1770	3750	9,9
THV	230	900	2700	3250	12,9
THV	260	1400	4200	3000	21,4
THV	300	2090	6270	2500	33,9
THV	360 - 650 360 - 750	13450	10350	2150	79,7 83,4
THV	400	4750	14250	1900	81,8 85,6
THV	400 - 866	4750	14250	1900	91,8
THV	400 - 1000	4750	14250	1900	106,5
THV	400 - 1150	4750	14250	1900	120,8

THV FLEXIBLE COUPLINGS



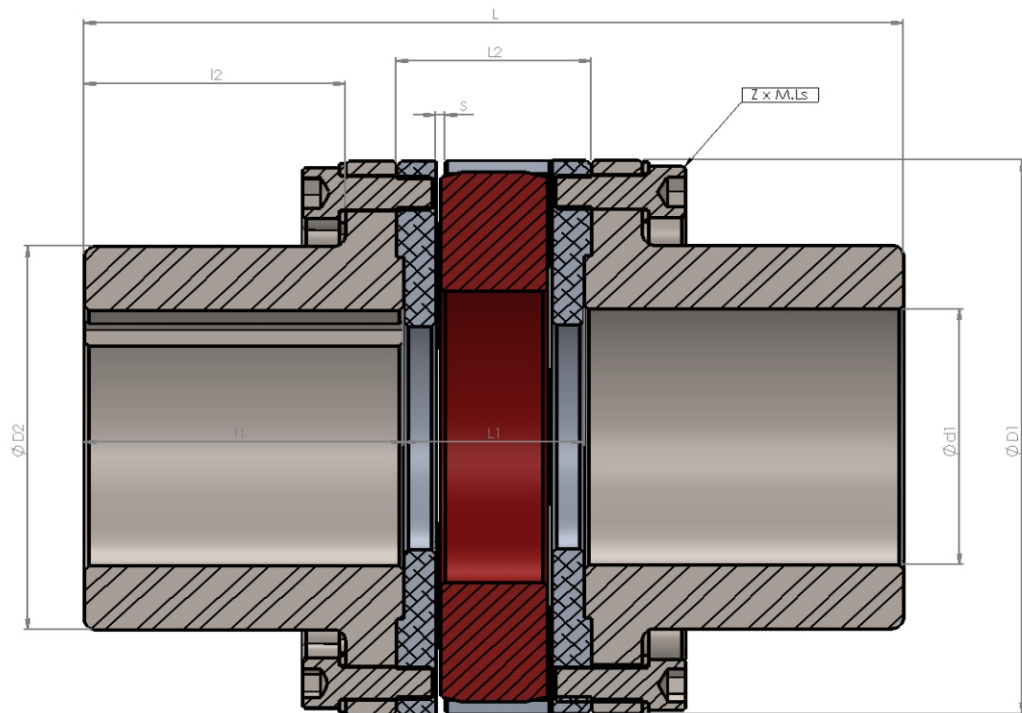
TYPE	$d_{1 \max}$ mm	D_1	D_2	D_3	D_4	D_5	$Z_5 \times dL$	L	L_1	L_3	L_4	S
100	27	105	38	100	128	145	6x9	42	50	2	10	2,0
125	34	126	48	130	148	170	6x9	47	57	2	10	2,0
145	42	145	60	150	172	194	6x9	55	65	4	12	2,0
170	58	170	82	170	195	220	6x13,5	60	75	4	14	2,5
200	65	200	95	195	228	250	8x13,5	65	85	4	14	2,5
230	70	230	102	220	265	290	8x13,5	70	90	4	15	4,5
260	90	260	130	265	310	335	12x13,5	85	110	4	18	4,5
300	105	300	147	315	360	385	16x13,5	100	130	4	24	4,5
360 - 650 360 - 750	150	350	210	360 420	420 480	455 514	16x17,5 20x17,5	123 125	175	5	20 30	7,5
400 400 - 866 400 - 1000 400 - 1150	160	400		420 485 580 770	480 555 650 840	514 595 690 890	20 x 17,5 12 x 22 16 x 22 16 x 30	125	180	5 6 6 6	30 30 30 27	7,5

THD FLEXIBLE COUPLINGS



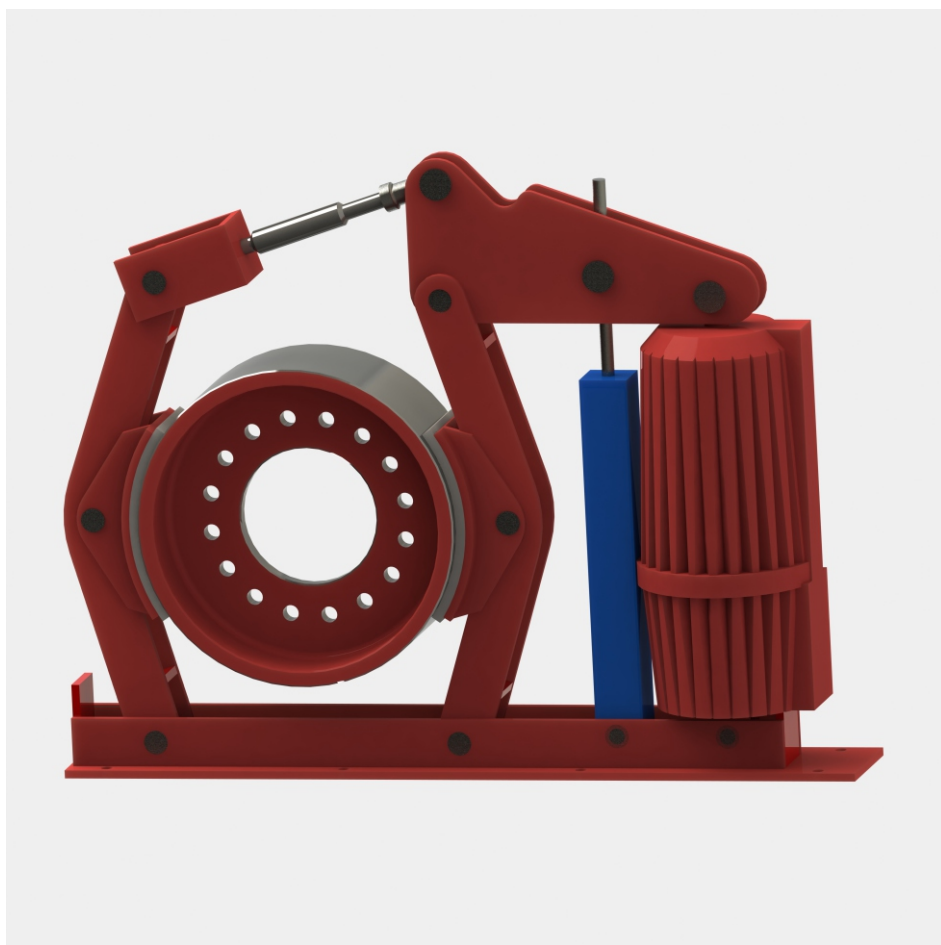
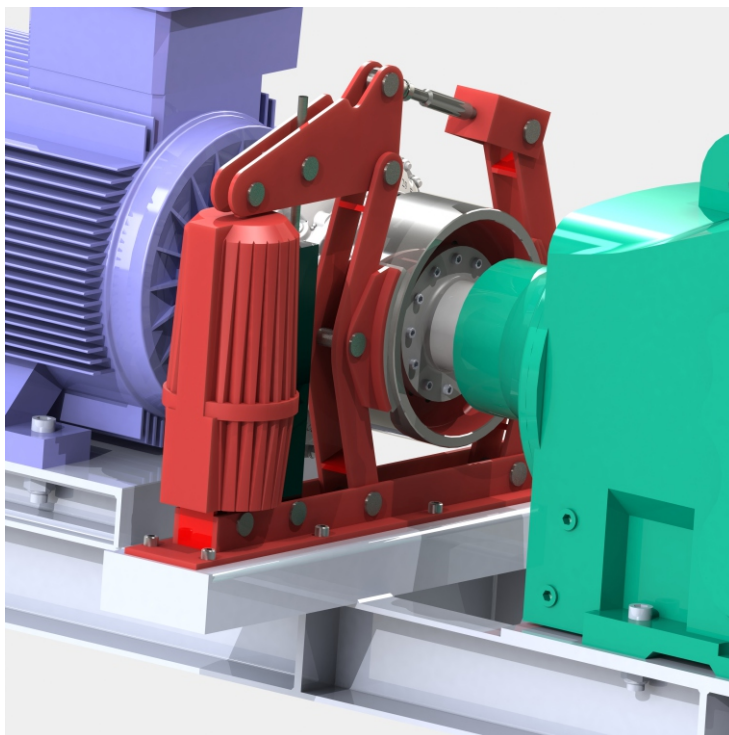
COUPLING TYPE		BOLT SIZE		TORQUE		SPEED HIZ n_{MAX} [min-1]	TOTAL WEIGHT TOPLAM AĞIRLIK [Kg]
		Z x M - Ls	Ma	T _{KN} [NM]	T _{KMAX} [NM]		
THD	100	9 x M8 - 20	25	130	390	7250	4,9
THD THDL	125	9 x M10 - 25	49	250	750	6000	7,7 11,0
THD THDL	145	9 x M12 - 30	85	400	1200	5250	11,8 15,6
THD THDL	170	12 x M12 - 30	86	630	1890	4500	18,3 27,0
THD THDL	200	12 x M14 - 30	135	1100	3300	3750	31,9 46,0
THD THDL	230	15 x M14 - 35	135	1700	5150	3250	47,5 64,2
THD THDL	260	15 x M16 - 40	210	2650	7950	3000	64,9 99,2
THD THDL	300	15 x M20 - 50	425	3900	11700	2500	99,0 133,0
THD THDL	360	12 x M24 - 55	730	6500	19500	2150	161,0 203,0
THD THDL	400	14 x M24 - 55	730	8900	26700	1900	178,0 221,0

THD FLEXIBLE COUPLINGS



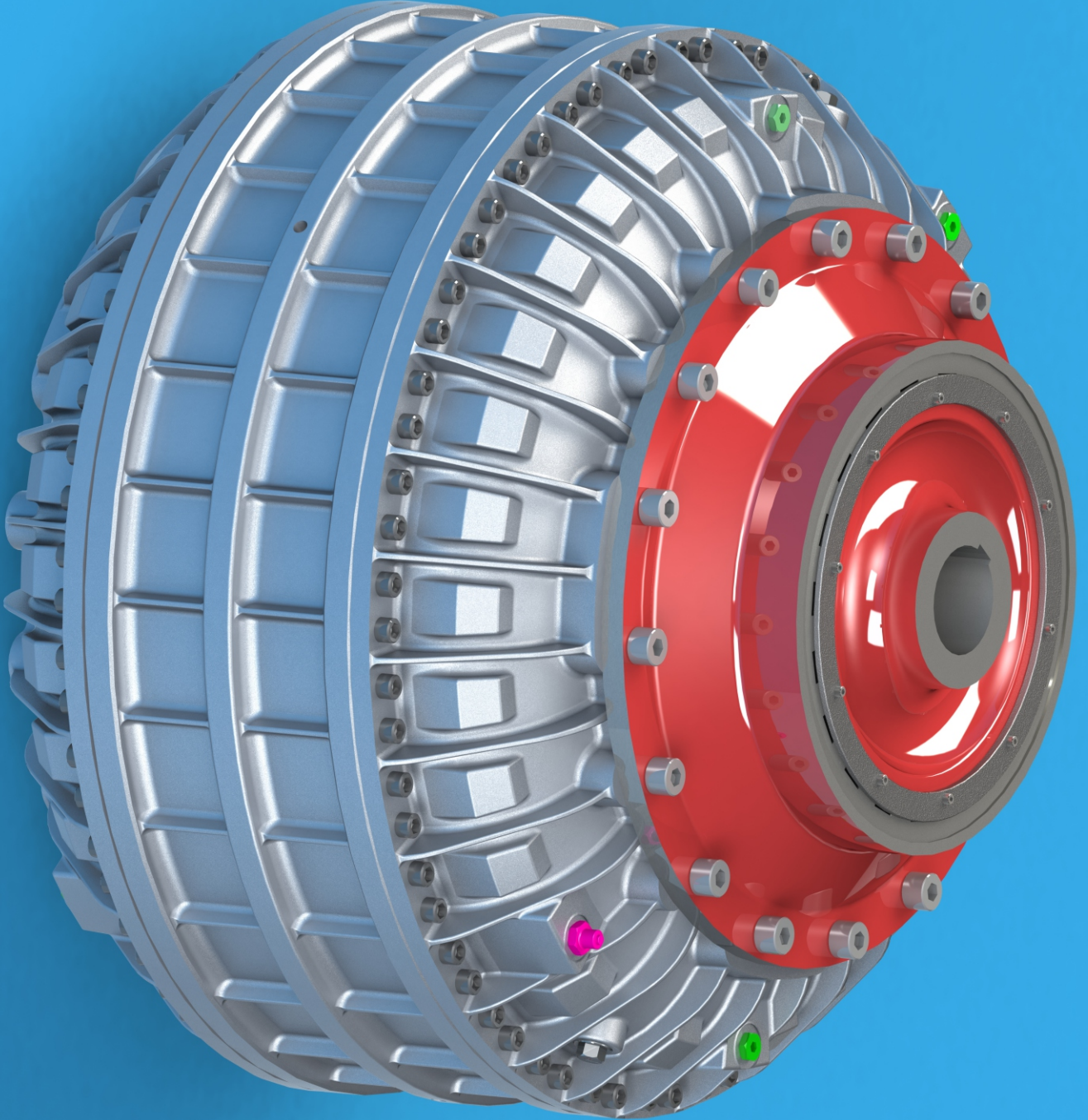
TYPE	MODEL	d_1 max mm	D_1	D_2	L	L_1	L_2	l_1	l_2	S
THD-5 THDL-5	100	45	105	65	151 275	53	56 + 2,0	49,0 110,0	37,5 98,5	5
THD-5 THDL-5	125	55	126	75	170 278	58	61 + 2,5	56 110,0	42,5 96,5	5
THD-5 THDL-5	145	60	145	85	189 288	68	71 + 2,5	60,5 110,0	44,0 93,5	5
THD-5 THDL-5	170	75	170	110	217 348	68	71 + 3,0	74,5 140,0	58,0 123,5	5
THD-5 THDL-5	200	95	200	135	274 417	77	81 + 3,0	98,5 170,0	82,0 153,5	6
THD-5 THDL-5	230	110	230	160	301 421	81	86 + 3,5	110,0 170,0	90,0 150,0	7
THD-5 THDL-5	260	125	260	180	321 516	96	101 + 4,0	112,5 210,0	88,0 185,5	8
THD-5 THDL-5	300	140	300	200	376 533	115	118+4,0	131,5 210,0	105,0 183,5	8
THD-5 THDL-5	360	160	360	160	469 625	125	130 + 4,0	172,0 250,0	142,5 220,5	8
THD-5 THDL-5	400	160	400	160	469 625	125	130 + 4,0	172,0 250,0	142,5 220,5	8

ELDRO BRAKE



ABOUT US

Our company stracted to produce in 1979. We provide services without compromising quality, workmanship and service for more than 38 years. Our company is the first in the produce of hydraulic couplings and torque convectors. We are here for you, with our knowledge and mastery gained in many years.



TURBO HİDROLİK

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