

# Produktübersicht APEX-Winkelgetriebe



		Right-angle planetary High-End						Right-angle Hypoid High-End						Right-angle planetary Medium-End					
Product type		ABR	ADR	AER	AERS	AFR	AFXR	AFHK	AHK	APK	APCK	KF	KH	PAIR	PEIR	PGIR	PSIR	PDR	PLR
High Torque		-	-	-	-	-	-	-	x	x	x	-	-	-	-	-	-	-	-
High Speed		-	-	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-
Ratio	Min.	3	4	3	3	3	3	4	4	22	22	1	3	3	3	3	3	3	3
	Max.	200	200	200	200	200	200	10.000	10.000	5500	5.500	100	100	100	100	1.000	100	100	100
Backlash [arcmin] <sup>a</sup>	Standard	≤ 6	≤ 6	≤ 10	≤ 10	≤ 6	≤ 6	≤ 2	≤ 2	≤ 1.2	≤ 1.2	≤ 3	≤ 3	≤ 10 - ≤ 12	≤ 10 - ≤ 12	≤ 10 - ≤ 12	≤ 10 - ≤ 12	≤ 10 - ≤ 12	≤ 10 - ≤ 11
	Reduced	≤ 4	≤ 4	-	-	≤ 4	≤ 4	-	-	-	-	-	-	-	-	-	-	-	-
	Micro	≤ 2	≤ 2	-	-	≤ 2	≤ 2	-	-	-	-	-	-	-	-	-	-	-	-
Helical, Straight, Spiral or Hypoid teeth		Helical	Helical	Helical	Helical	Helical	Helical	Hypoid <sup>d</sup>	Hypoid <sup>d</sup>	Hypoid	Hypoid	Hypoid <sup>e</sup>	Hypoid	Straight	Straight	Straight	Straight	Straight	Straight
<b>Output options</b>																			
Smooth shaft		x	-	-	-	x	x	x	-	-	-	x	-	x	-	-	-	-	-
Shaft with key		x	-	x	x	x	x	x	-	-	-	x	-	x	x	x	x	-	-
Shaft with spline (DIN 5480)		o	-	-	-	o	o	o	-	-	-	o	-	-	-	-	-	-	-
Hollow shaft (blind)		-	-	-	-	-	-	o	-	-	-	-	-	-	-	-	-	-	-
Hollow shaft with shrink disk (through)		-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-
Hollow shaft with key (through)		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flange for belt pulley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x
Hollow shaft with flange (ISO 9409)		-	-	-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-
Curvic plate flange		-	-	-	-	-	-	-	-	-	x	-	-	-	-	-	-	-	-
Robotflange (ISO 9409)		-	x	-	-	-	-	-	x	x	-	-	x	-	-	-	-	-	x
Output on both sides		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Input options</b>																			
Input for motor		x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x	x
Input shaft		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>Characteristics</b>																			
ATEX		o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Food-grade lubrication		o	o	o	x	o	o	o	o	o	o	o	o	o	o	o	o	o	o
Stainless	House and shaft (flange)	x	x	x	x	x	x	-	-	-	-	-	-	-	-	-	-	-	-
	Fully	-	-	-	x	-	-	-	-	-	-	-	-	-	-	-	-	-	-
<b>System solutions</b>																			
Linear system (Rack / Pinion) <sup>c</sup>		o	o	o	o	o	o	o	o	o	x	o	o	o	o	o	o	o	-
<b>Accessories</b>																			
Shrink disk		-	-	-	-	-	-	o	-	-	-	o	-	-	-	-	-	-	-
Belt pulley		-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	x
<b>Price</b>																			
Relative costs		++	++	+	+++	++	++	+++	+++	+++	+++	++	++	+	+	+	+	+	+

<sup>a</sup> Taken for 1-stage versions

<sup>b</sup> Contact Apex Dynamics

<sup>c</sup> Linear systems aren't possible on large sizes

<sup>d</sup> The C version of this gearbox has a bevel gear as right angle stage

<sup>e</sup> Also available in bevel gear version

<sup>f</sup> Multiple stages have a straight toothed inline planetary stage

<sup>g</sup> All three shafts can be used as input or output shafts

<sup>h</sup> All four shafts can be used as input or output shafts

x standard

o Optional (additional costs)

- Not possible

Alle APEX-Hypoidgetriebe sind komplett überarbeitet und unterscheiden sich in wesentlichen Merkmalen von Wettbewerbsprodukten. Das Design wurde überarbeitet und geschützt.

### Wesentlicher technischer Unterschied:

Die APEX-Hypoidgetriebe sind wie alle anderen APEX-Getriebe „gleichdrehend“ **eingangs- und ausgangsseitig** und können daher NICHT 1:1 gegen Wettbewerbsgetriebe ausgetauscht werden, da diese „gegenseitig drehend“ sind.