



DIMENSIONS: (mm)

| Type ADS | A | C | D | D1 - D2 ⁶⁾ Min H7 Max H7 | E (+/- 1) | F | G DIN 912 | H | I |
|----------|-----|-----------------------|-----|--|----------------------|---------------------|-----------------------|-----------------------|----|
| ADS 10 | 30 | 11 | 34 | 6-16 | 35 | 5 | M 4 | 10.5 | 13 |
| ADS 18 | 40 | 25/14 | 45 | 10-24 | 66/42 | 6 | M 5 | 15 | 16 |
| ADS 60 | 55 | 30/20.8 ⁸⁾ | 57 | 14-32 | 78/58 ⁸⁾ | 10 | M 6 | 20 | 18 |
| ADS 150 | 65 | 35/22 ⁸⁾ | 70 | 16-38 | 90/62 ⁸⁾ | 11 | M 8 | 24 | 20 |
| ADS 300 | 80 | 45/32 ⁸⁾ | 89 | 24-45 | 114/86 ⁸⁾ | 18/16 ⁸⁾ | M 10 | 30 | 24 |
| ADS 500 | 105 | 56/34 ⁸⁾ | 111 | 32-60/68 ⁹⁾ | 140/94 ⁸⁾ | 20/16 ⁹⁾ | M 12/10 ⁹⁾ | 40/40.5 ⁹⁾ | 28 |

- 1) All hubs made of Al 6061 T6
- 2) Operating temperature range for -30 ° to 110 ° Centigrade.
- 3) Keyways according to standard DIN 6885 or American on request.
- 4) Clearance of keyway, standard JS 9.
- 5) Insert material made of Polyurethane sh 64 D (green color)
- 6) Transmission of the coupling's rated torque (M) is only guaranteed for bore sizes with the recommended range. Other special bores can, however, be supplied by the manufacturer. All hub bores are supplied to fit standard H7 tolerance.
- 7) All couplings on request balanced up to 20,000 rpm for spindles according to ISO 1940G6.3
- 8) ADS 60, 150, 300 and 500 available in shorter versions without cross clamping slit bores.
- 9) Bigger bore possible with changed screw position.

TECHNICAL RATINGS:

| Type ADS | Insert Code ¹⁾ | Rated Torsional Torque (M) | | Lateral Spring Stiffness (N/mm) | Misalignment (mm) | | Misalignment (degrees°) | Moment of Inertia 10 ³ J (gcm ²) | Torque to Tighten Clamps (Nm) | Mass m (g) |
|----------|---------------------------|----------------------------|----------|---------------------------------|-------------------|-------|-------------------------|---|-------------------------------|------------|
| | | (Nm) | (Nm/rad) | | Lateral | Axial | | | | |
| ADS 10 | 64 D | 16 | 702 | 856 | 0.06 | 1.0 | 0.9 | 0.1 | 5 | 40 |
| ADS 18 | 64 D | 21 | 3720 | 2930 | 0.06 | 1.2 | 0.9 | 0.4/0.3 | 10 | 140/89 |
| ADS 60 | 64 D | 75 | 8934 | 3696 | 0.10 | 1.4 | 0.9 | 1.1/0.8 | 18 | 300/223 |
| ADS 150 | 64 D | 200 | 13050 | 4348 | 0.11 | 1.5 | 0.9 | 4.2/2.9 | 43 | 550/379 |
| ADS 300 | 64 D | 405 | 31462 | 6474 | 0.12 | 1.8 | 0.9 | 18.5/13.9 | 84 | 1000/754 |
| ADS 500 | 64 D | 655 | 90500 | 8274 | 0.16 | 2.1 | 0.9 | 77.0/52.4 | 120/100 | 2533/1722 |

- 1) Red 98A Insert with lower torque rating available on your request. The dimensioning of the couplings is always based on the peak torque (Mmax) which is to be transmitted regularly by the servo motors. For the basis of the calculation of the coupling's rated torque, see ordering data. The couplings, under no circumstances, should be submitted to a torque greater than 2.5 times the rated torque.