



Constant velocity joints & driveshafts for industry and specialty vehicles



THE SOLUTION FOR VIBRATION-FREE TRANSMISSION OF TORQUE

The Walterscheid Powertrain Group is a leading provider of technology differentiated power management solutions and services. It designs, manufactures and supplies products and services for the global agricultural, construction, utility vehicles and industrial machinery markets. In addition, it provides global aftermarket distribution and comprehensive throughlife support.

Walterscheid Powertrain Group Systems & Services is your preferred partner for

- ▶ Driveline parts and systems
- ▶ Industrial parts and systems
- ▶ Repair and maintenance
- ▶ Complete design and build of special drivelines



The solution for vibration-free transmission of torque

Walterscheid Power Train constant velocity (CV) driveshafts are ideally suited for applications where unequal joint angles are encountered and low vibration generation is needed. They are reliable and proven transmission elements.

Typical applications of Walterscheid Powertrain Group constant velocity driveshafts, for example:

- ▶ Bottling machines
- ▶ Agricultural and forestry vehicles
- ▶ Garbage Trucks
- ▶ Textile machines
- ▶ Mining machinery
- ▶ Printing machines
- ▶ Wind turbines
- ▶ Pump drives
- ▶ Marine propulsion (Aquadrive system)
- ▶ Dynamometers
- ▶ Commercial vehicles
- ▶ Railroad equipment
- ▶ Military vehicles



CONSTANT VELOCITY JOINTS AND DRIVESHAFTS

PLUNGING JOINTS

Up to 22° articulation angle, dependent on joint type.



Type	max. stat. torque rating [Nm]	Outer diameter of joint	max. plunge depth [mm]
05	1,500	83.65	+/- 8
10	2,300	94	+/- 6
13	2,900	99.73	+/-11
15	3,700	108	+/-8
21	6,000	128	+/-12
30	9,200	148	+/-12.5
32	13,200	180	+/-12.5
42	19,700	192	+/-12
48	22,000	220	+/- 12.5
60	67,500	275	+/- 15

FIXED BALL JOINTS

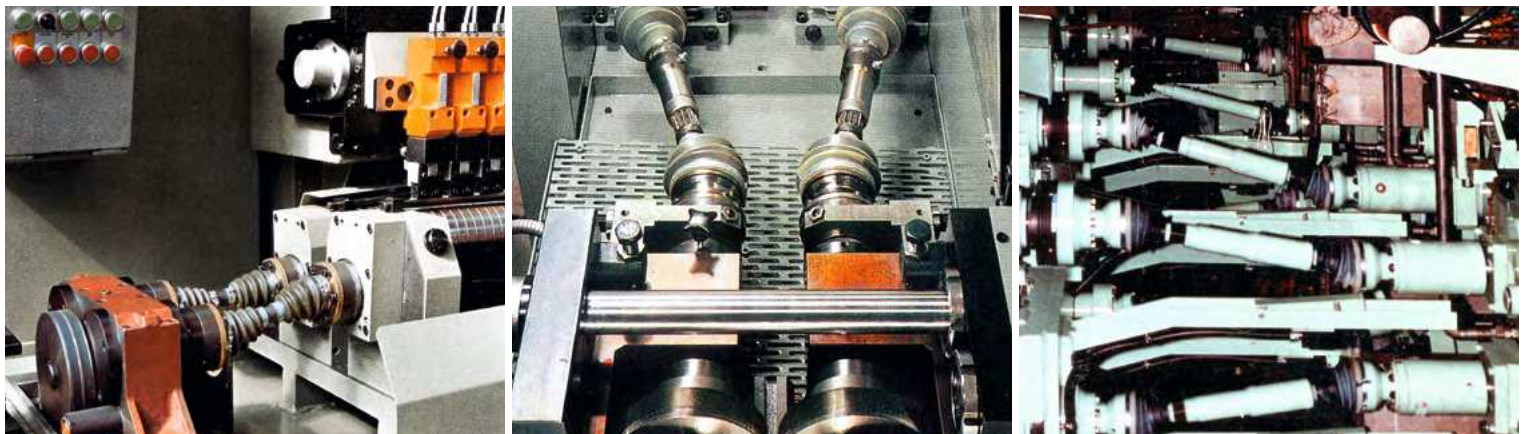
Up to 47° articulation angle, depending on joint type.



Type	max. stat. torque rating [Nm]	Outer diameter of joint
05	1,300	74
10	1,700	83
12	2,350	92
15	3,040	100
21	5,700	119
30	9,700	140
32	14,000	180
42	23,000	192



Left to right: Vehicle driveshaft, Plunging ball joints, Heavy Duty CV shaft, Plunging joint with tube connection, CV joint coupling for railway vehicle, CV shaft combining plunging and fixed joints, Aquadrive Antivibration System

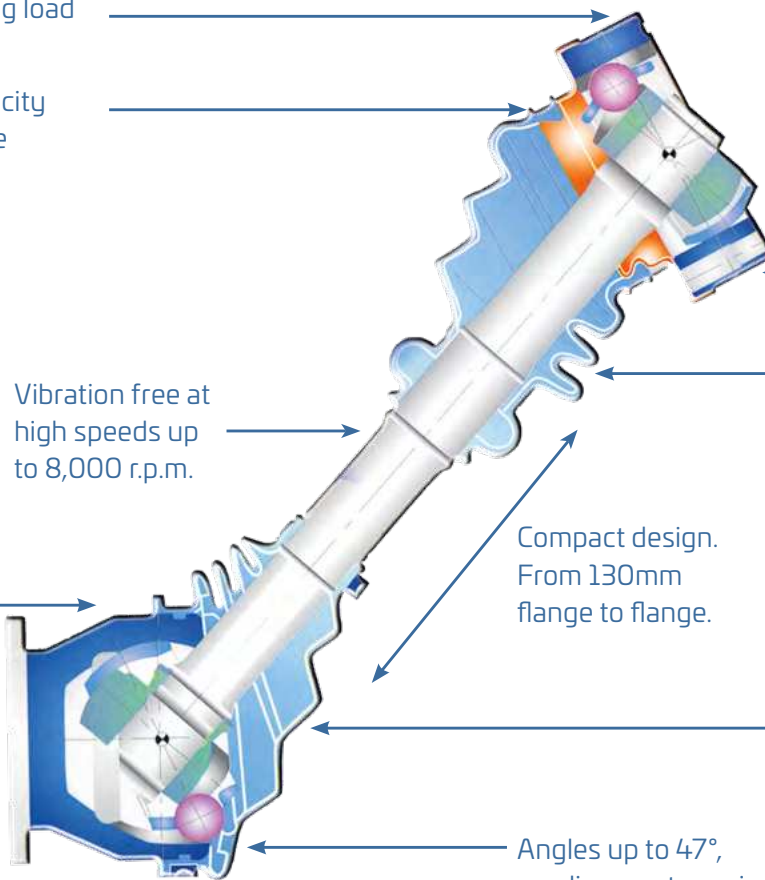


YOUR SPECIALIST FOR DRIVELINE ENGINEERING SOLUTIONS



Low plunge resistance
in the joint
= Low bearing load

Constant velocity
at every angle



Angles up to 22°,
no alignment
required

Vibration free at
high speeds up
to 8,000 r.p.m.

Lubricated for life

Compact design.
From 130mm
flange to flange.

Angles up to 47°,
no alignment
required

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