



C3S DISC BRAKE STATION

Disc brake station for all trains

THE MOST MODULAR, LIGHT WEIGHT, EASY MAINTENANCE DISC BRAKE STATION

For all pneumatic brake applications

High speed
Regional & intercity trains
Coaches
Metro
Locomotives
People mover
Freight wagons in all types of operating conditions

C3S DISC BRAKE STATION FEATURES

Modular concept with 2 types of caliper (AMD, WMD) and 3 types of cylinder (Service brake, Service + Spring parking & Service + Parklock®)

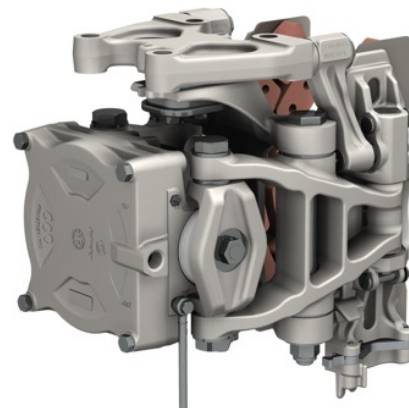
Bearing-free & self-cleaning articulation for reduced complexity & maintenance cost

Hanging link concept allows reduced component size & weight of the unit.

Anti-compound valve & retention device integrated in Parking brake cylinder, Quick connect release cable

Optional electric indicators

Parklock springless parking brake available for further weight reduction



KEY CUSTOMER BENEFITS

Lightest Weight

For best energy efficiency & easy maintenance.

Highest Maintainability

Cylinder can be dismantled separately from caliper.

Lowest LCC

10 years MTBO, easy maintenance.

Easiest Installation

Low profile unit, reduced space envelop, standard interface with bogie.

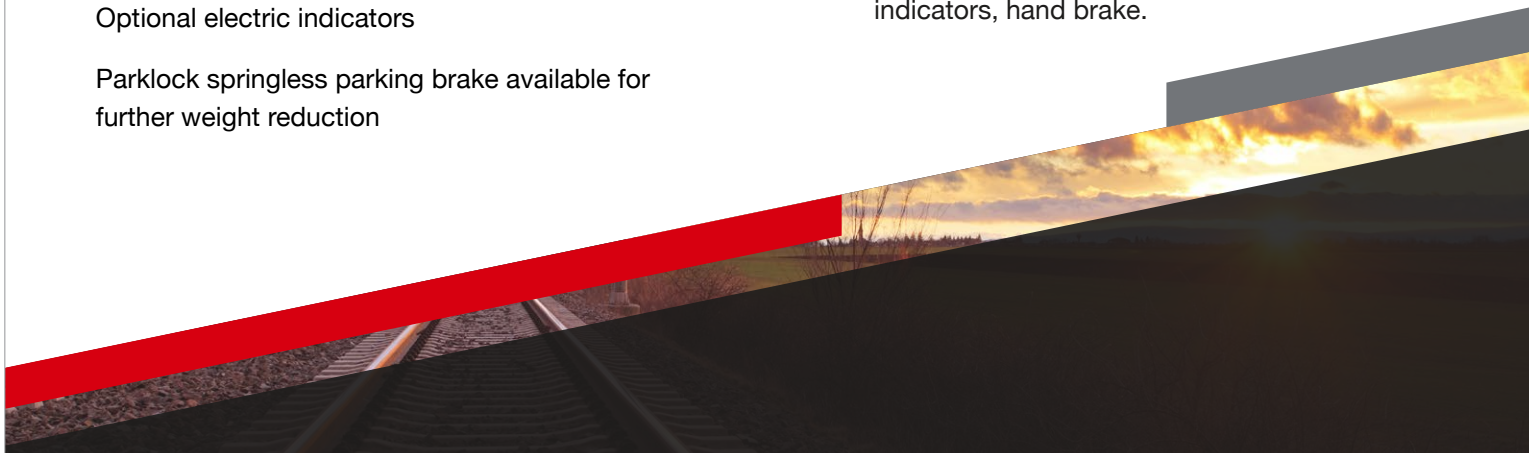
Safe & easy handling pad locking system.

C3S is designed to cope with all type of environments (desertic, ice, very low or very high temperature).

Best effort-to-weight ratio.

No needle or slide bearings for reduced maintenance cost.

Multiple options available, including indicators, hand brake.



DISC BRAKE UNIT RANGE

Axle mounted discs

UP TO 40 kN

UP TO 70 kN

UP TO 110 kN



Conventional Cylinder / 3 Points Caliper - Typically 3 Disc Per Axle Applications (VHST), Low Clamping Force



C3s - Typically 2 Discs Per Axle Applications



High Force Evo1 Brake Station - Typically 1 Disc Per Axle Applications (Metro)

Wheel mounted discs

UP TO 55 kN



C3s - Low Effort Unit For Optimized Weight



C3s - High Effort Wmd Unit

C3S MAIN FEATURES

	AMD 40->70 kN	WMD ->55 kN	WMD->70 kN
SB force (kN)	70	55	70
Spring PB force (kN)	60 (4,5 bar)	60 (5 bar)	60 (4,5 bar)
ParkLock force (kN)	60	45	60
Weight SB / PB / PL (kg)	60 / 72 / 66	69 / 80 / 74	82 / 93 / 87

A modular system made of AMD and WMD calipers plus 3 types of cylinders (Service brake, Service + Spring parking, Service + Parklock®)



AMD Service Brake Station



AMD Service & Spring Parking Brake Station



AMD Service & Parklock® Parking Brake Station

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