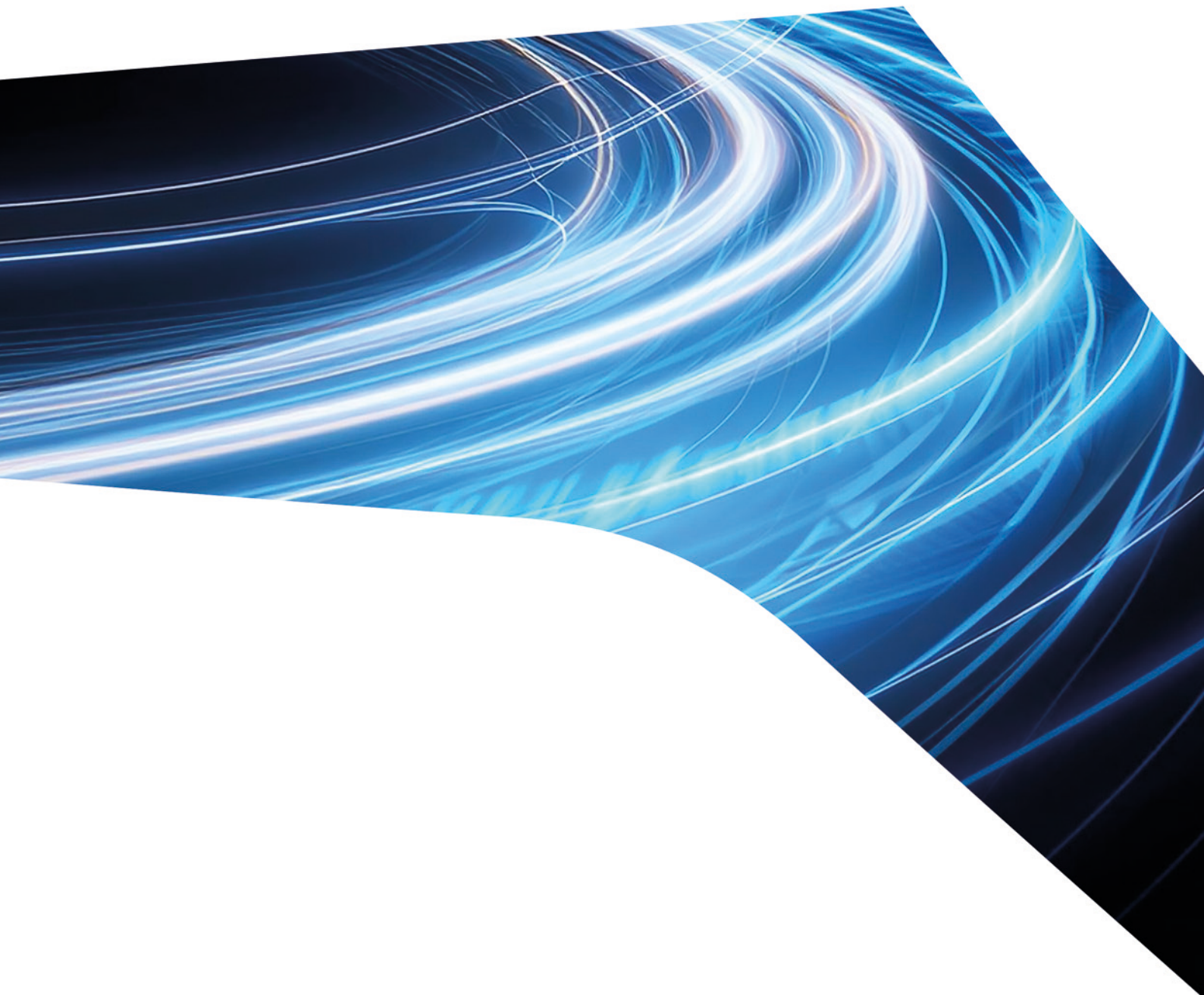




Off-Highway  
Drive and Motion Systems  
**Mobile and Industrial Business**





# Off-Highway Drive and Motion Systems

As an innovative leader, Dana Off-highway continuously improves the performance and efficiency of vehicles and machines worldwide. We aim to be the global pacesetter in efficient power conveyance and energy-management solutions.

## Mobile

**AGRICULTURE**

**MINING**

**MATERIAL HANDLING**

**CONSTRUCTION AND FORESTRY**

**COMMERCIAL TURF CARE**

## Industrial

**BULK MATERIAL AND MINING**

**ONSHORE AND OFFSHORE MARINE**

**INDUSTRIAL AND STATIONARY EQUIPMENT**

**HEAVY INDUSTRY: STEEL, SUGAR, AND CEMENT**

**WASTE MANAGEMENT AND RENEWABLE ENERGY**

**PLASTIC AND RUBBER**

# Off-Highway **Brand Portfolio**

Supported by a legacy of innovation in conventional drivetrains, Dana Off-Highway is at the forefront of integrating mechanical and electrical components for alternative propulsion applications. We embrace evolution to be a step ahead in supporting new applications as they emerge and collaborating with customers as they develop tomorrow's vehicles.

## Drivetrain and e-Drive Systems



## Motion and e-Motion Systems



## Gears and Shifting Solutions



## Thermal Management



## Sealing



## Electric and Hybrid e-Drive Systems





# Drive and Motion Solutions

The drivetrain solutions you need, backed by global expertise and support.

## Spicer™ Axles and Drives

Spicer™ axles are engineered to improve performance, tractive effort, and operator comfort in harsh working environments while also supporting on-road mobility through high torque density, high reliability, and robustness.

Our power-dense designs deliver maximum performance in a compact package that improves reliability, durability, stability, and safety.

Dana has a broad range of dedicated solutions matching the different application needs like torque density, specific duty cycle, braking performances, safety standard and robustness.



## Spicer™ Driveshafts

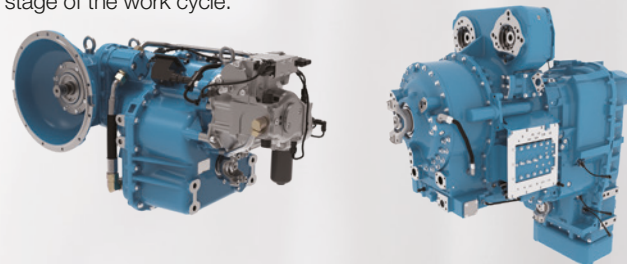
Built to withstand the roughest terrains and heaviest loads, Spicer driveshafts efficiently and reliably manage input torque to improve productivity, reduce operating costs, and simplify maintenance. They can be customized with a complete set of end fittings, flanges, and service options for any requirement.



## Spicer™ Transmissions with Electronic Controls

From basic gearboxes to leading-edge powersplit configurations, Dana supplies a wide range of powerful, efficient transmissions and electronic controls that improve fuel efficiency, handling, tractive effort, and operator comfort while reducing noise and ensuring easy maintenance.

Our advanced electronic controls provide multiple smart operating modes that optimize productivity, monitoring and efficiency at every stage of the work cycle.



## Graziano™ Custom Gears and Shifting Solutions

Our custom-designed high-precision gears and shafts improve the performance, reliability, and durability of final reduction components. We also support technically challenging and complex vehicle applications by leveraging our engineering expertise to supply customized crown wheel and pinion sets.

We offer a range of heavy-duty synchronizers and other shifting solutions that help vehicle and transmission manufacturers overcome the limited availability of engineering resources while giving vehicle operators better control, shifting performance and improved productivity.

Additionally, we leverage our in-house design, prototype, and validation capabilities to produce custom drive assemblies for highly specialized applications with accelerated development timelines.



## Brevini™ Motion Systems

We serve OEMs as a single supplier for the wide variety of components that maximize the productivity and efficiency of vehicle work functions.

Our comprehensive selection of Brevini™ motion products includes gearboxes, slewing drives, winches and hydraulic solutions.



## System Solutions

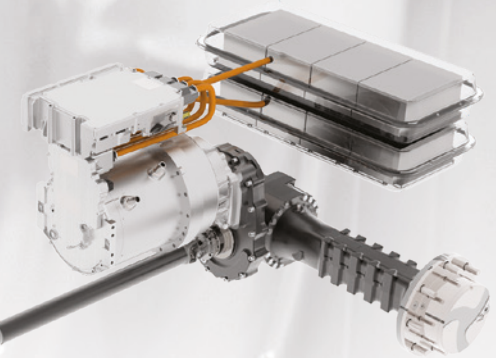
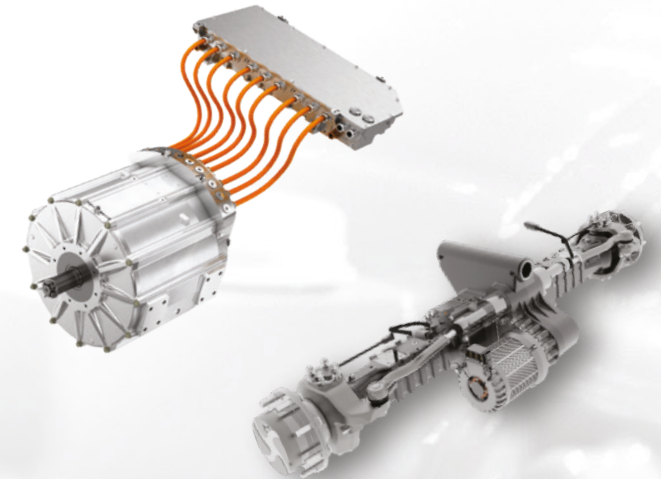
Vehicle intelligence, autonomous driving systems, AI, electrodynamics, telematics, cybersecurity, and other digital innovations are enabling quantum leaps in vehicle performance and efficiency.

Dana's multi-disciplinary team of system solutions engineers provides turnkey solutions for electric vehicle integration by collaborating with customers. Our holistic approach helps OEMs seamlessly integrate transformative digital technologies with Dana's proven drive and motion systems for the next generation of vehicles.

## e-Drive and e-Motion Solutions

We leverage our complete portfolio of e-Propulsion Systems — e-Axles, e-Drive Units, and e-Hub Drives — as well as e-Powertrains, e-Motion Systems, and electrodynamic modules to enable vehicles to meet the highest standards for efficiency, reliability, and performance.

We can help OEMs adapt current ICE-driven applications with effective, low-risk, quick-to-market drive solutions today as we plan for future vehicle configurations with fully integrated systems that deliver superior productivity while reducing manufacturing complexity and total cost of ownership.





Agriculture

Tractors



Spicer™ Independent Front Suspension Axle

Range		
970	980	990



Spicer™ Standard Suspension Axle

Range			
730	740	750	770



Spicer™ Portal Axle

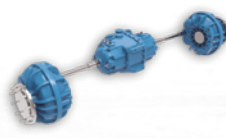
Range		
P71	P72	P73



Spicer™ Modular Axle

Range						
M20	M30	M40	M50	M60	770	

Combines and Harvesters



Spicer™ Front Axle

Range	
N07	N09



Spicer™ Rear Standard Suspension Axle

Range		
730	740	750



Spicer™ Rear Adjustable Axle

Range
733



Spicer™ Planetary Steering Axle

Range				
211	212	223	213	214

Telehandlers

Material Handling

Small Forklifts & AGVs



Spicer™ Planetary Steering Axle

Range
141

Container Handlers



Spicer™ Planetary Non-Steering Axle

Range	
145	147

Forklift Trucks



Spicer™ Planetary Non-Steering Axle

Range			
137	138	139	144

Rough Terrain Cranes



Spicer™ Planetary Steering Axles

Range
246

Ground Support Equipments



Spicer™ Planetary Non-Steering Axle

Range			
111	112	123	113



Spicer™ Planetary Steering Axle

Range					
211	212	213	223	214	246

Mining

Underground Mining Loaders



Spicer™ Planetary Non-Steering Axle

Range				
182	183	17D	20D	53R

Mining Trucks



Spicer™ Planetary Non-Steering Axle

Range				
182	183	17D	20D	53R

Drill Rigs



Spicer™ Planetary Non-Steering Axle

Range							
111	112	113	114	115	116	123	125



Spicer™ Planetary Steering Axle

Range	
213	223

Construction and Forestry

Compact Wheel Loaders



Spicer™ Planetary Non-Steering Axle

Range					
109	111	112	123	113	114

Large Wheel Loaders



Spicer™ Planetary Non-Steering Axle

Range			
115	116	125	126

Wheeled Excavators



Spicer™ Planetary Steering Axle

Range			
162	262	163	263



Spicer™ Planetary Non-Steering Axle

Range			
111	211	112	212

Telehandlers



Spicer™ Planetary Steering Axle

Range				
211	212	223	213	214

Single Drum Rollers



Spicer™ Planetary Non-Steering Axle

Range		
192	193	194

Motor Graders



Spicer™ Bogie Axle

Range					
GA10	GA14	GA17	GA15	GA20	FG65

Forestry Applications



Spicer™ Rear Axle

Range					
113	114	115	116	125	126



# Drive Systems

## Spicer™ Wheel and Track Drives

### Agriculture

#### Sprayers



Spicer Torque-Hub™  
CT Series

Range					
CT11	C016(*)	C021	C024	C030(*)	C036

(\*) = under development



Spicer Torque-Hub™  
C0 Series

#### Windrowers



Spicer Torque-Hub™  
C0 Series

Range	
C024	HW5



Spicer Torque-Hub™  
HW5 Series

### Material Handling

#### Rubber-Tire Gantry Cranes



Spicer Torque-Hub™  
RCT Series

Range		
RCT9083	RCT9103	RCT9133



Spicer Torque-Hub™  
PHC and TH Series

Range	
PHC3850	TH510

#### Crawler Cranes



Spicer Torque-Hub™  
CTU Series

Range	
CTU3500.1	CTU3700.1



Spicer Torque-Hub™  
RCT Series

Range		
RCT9083	RCT9103	RCT9133

### Mining

#### Drill Rigs / Mobile Crushers and Screeners



Spicer Torque-Hub™  
CTU Series



Spicer Torque-Hub™  
RCT Series

Range				
CTU3150.1	CTU3200.1	CTU3300.1	CTU3500.1	CTU3700.1

Range		
RCT9083	RCT9103	RCT9133

### Construction and Forestry

#### Compact Track Loaders



Spicer Torque-Hub™  
CT Series

Range			
CT05	CT07	CT11	CT17

#### Forestry Applications



Spicer Torque-Hub™  
RCT Series

Range		
RCT9083	RCT9103	RCT9133

#### MEWPs



Spicer Torque-Hub™  
H Series Hydraulic

Range					
4H	7H	8H	11H	13H	18H



Spicer Torque-Hub™  
eS-AW Series Electric

Range				
eSAW04	eSAW07	eSAW11	eSAW13	eSAW17



Spicer Electrified™ e-Drive Drop Box,  
Spindle and Hub Output

Range				
eS04D	eS05D	eS08D	eS10S	eS10H

#### Road Equipment



Spicer Torque-Hub™  
RCT Series

Range
RCT7102



Spicer Torque-Hub™  
CTU Series

Range				
CTU3150.1	CTU3200.1	CTU3300.1	CTU3500.1	CTU3700.1

#### Track Undercarriages



Spicer Torque-Hub™  
CTU Series



Spicer Torque-Hub™  
RCT Series

Range		
RCT9083	RCT9103	RCT9133



Drive Systems  
Spicer™ Transmissions

Agriculture

Telehandlers



Powersplit Transmission

Range
HVT1



Powershift Transmission

Range
PS09 PSR09 T/VDT12000

Sprayers



Powersplit Transmission

Range
HVT2

Construction and Forestry

Wheel Loaders



Hydrostatic Transmission

Range
312 315 318 319



Hydrostatic Double Speed

Range
358 367



Powershift Transmission

Range
TE32 TE50



Powershift Transmission

Range
TE18 TZL16 TZL18



Powersplit Transmission

Range
HVT2

Mobile Elevated Work Platforms



Hydrostatic Transmission

Range
301

Telehandlers



Powershift Transmission

Range
T/VDT12000



Powersplit Transmission

Range
HVT1



Hydrostatic Transmission

Range
318



Hydrostatic Transmission

Range
319



Hydrostatic Two-Speed Transmission

Range
358 367 368

Forestry Equipments



Powersplit Transmission

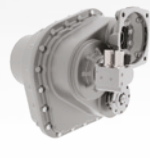
Range
HVT2

Wheeled Excavators



Hydrostatic Two-Speed Transmission

Range
358 367



Hydrostatic Transmission

Range
342 343

Motor Graders



Powershift Transmission

Range
TMG14

Material Handling

Forklifts



Powershift Transmission

Range
T/TE08 T12000 TE08 TE10 T/TE14 TE17 TE30



Powershift Transmission

Container Handlers



Powersplit Transmission

Range
HVT2



Powershift Transmission

Range
T/TE14 TE17 TE30

Rough-Terrain Cranes



Powershift Transmission

Range
T20000 24000



Powershift Transmission

Range
T/TE14

Mining

Underground Mining Loaders and Trucks



Powershift Transmission

Range
T20000 36000 C8000 + 8000



Powershift Transmission



Powershift Transmission

Range
T/TE14 TE32 TE50



Powershift Transmission

Utility Vehicles



Powershift Transmission

Range
T12000 T20000 24000



Powershift Transmission

Range
T/TE14

Underground Mining Drill Rigs



Powershift Transmission

Range
T20000 24000



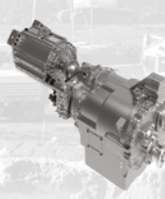
Powershift Transmission

Range
T/TE14

Mining Electrified

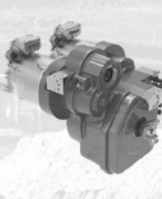


Powershift Electrified Transmission



Long Drop Powershift Transmission

Range
eRTE14 eRTE32



e-Powershift Transmission

Range
eSP502



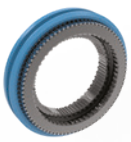
# Drive Systems

## Graziano™ Custom Gears and Shifting Solutions

### Synchronizers



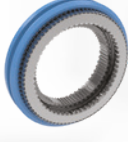
Graziano™ Synchronizer  
DC 95/100



Graziano™ Synchronizer  
SC 184



Graziano™ Synchronizer  
TC 102/110/118



Graziano™ Synchronizer  
CSS

### Gears and Shafts



Graziano™ Gears



Graziano™ Shaft



Graziano™ Ring Gears

### Powershift Clutches



Graziano™ Powershift  
Clutches



Graziano™ Powershift Units

### Bevel Sets

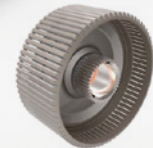


Graziano™ Crown  
Wheel and Pinion



Graziano™ Bevel Gear

### Custom Gears

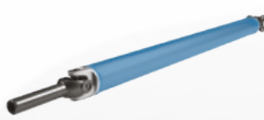


Fairfield™ Custom Gears

# Drive Systems

## Spicer™ Driveshafts

### Tractors



Spicer™ SPL55



Spicer™ Wing™  
Series 8.5C



Spicer™ Centered  
Double Cardan



Spicer™ Double  
Universal Joint 93B35



Spicer™  
Wing™ Series 7C

### Combine Harvesters

### Reach Stackers



Spicer™ Wing™ Series  
6C



Spicer™  
Wing™ Series 7C

### AGVs



Spicer™ Wing™ Series  
5C

### Forklifts



Spicer™ Wing™  
Series 5C

### Telehandlers



Spicer™ Double  
Universal Joint 82B30



Spicer™ 10-Series  
1410

### Motor Graders

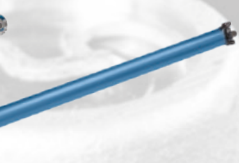


Spicer™ Wing™ Series  
7C

### Compact Wheel Loaders



Spicer™ Centered  
Double Cardan  
2015-CDC

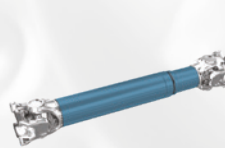


Spicer™  
SPL55

### Large Wheel Loaders

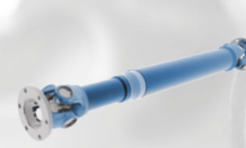


Spicer™ Wing™ Series  
15C



Spicer  
Compact Plus™  
2045+

### Wheeled Excavators



Spicer™ 10-Series  
1410

### Forestry Applications



Spicer™ Wing™ Series  
7C with Bearing  
Support



Spicer™ Wing™ Series  
8.5C

### Underground Mining Loaders



Spicer™ Wing™ Series  
9C

### Drill Rigs



Spicer™ Wing™ Series  
9C

### Mining Trucks



Spicer™ Wing™ Series  
14C




# Motion Systems


With global expertise in the design and manufacturing of high-efficiency technologies for industrial and stationary equipment applications, Motion Systems fully integrates into Dana offer Brevini™ gearboxes, winches and hydraulic solutions, PIV™ extruders drives, GWB™ industrial driveshafts, Fairfield™ custom gears. Supported applications include on- and offshore equipment, green technologies, mining, heavy industries, and earthmoving.




## Brevini™ Planetary Gearboxes



S-Range



Industrial Slewing Drives



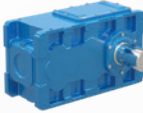
Industrial and E-Range Planetary Gearboxes

Range	Nominal Torque [Nm]
S300-S20000	34,000-2,170,000


Range	Nominal Torque [Nm]
RPR030-RPR2050	5,000-24,000
SLS300-SLS850	34,000-200,000

Range	Nominal Torque [Nm]
E10-E260	1,300-25,000
EM1010-EM1320	1,000-24,000


## Brevini™ Helical and Bevel Helical Gearboxes



Brevini EvoMax™ Gearbox



Posired™ 2




Posired™ N

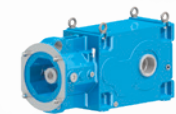
Range	Nominal Torque [Nm]
E2H-E3H- E4H-E3B- E4B-E3C- E4C	10,000-290,000

Range	Nominal Torque [Nm]
PC-PD-PE-PLC-PLD 60 - 91	340,000-1,100,000
PB / PLB 16 - 45	5,700-113,000


Range	Nominal Torque [Nm]
ND-NE 18 - 56	8,200-286,000



Posired™ TS



Posired™ D




Gearboxes

Range	Nominal Torque [Nm]
TS18 - TS63	8,200-400,000


Range	Nominal Torque [Nm]
ILC14 - ILC25	3,100-22,800

Range	Power [Kw]
ML32 - 52	10-100
B585 - 602	30-55
RD33 - 52	6-12

## Brevini™ Plano Helical Gearboxes



High Power



Posiplan

Range	Nominal Torque [Nm]
SL2PLB85016 SL2PLB200031	90,000-2,170,000

Range	Nominal Torque [Nm]
PH, BPH 13-28	3,900-35,000

## Brevini™ Winches



Hoisting Winches



Recovery Winches




Winch Drives

Range	Max Line Pull at First Layer [kg]
DW 050-090	500-900
BWE 015-160	1,500-16,000

Range	Max Line Pull at First Layer [kg]
BWT 10.000-30.000	10,000-30,000

Range	Max Output Torque [Nm]
PWD 2100-31100	10,000-110,000
SLW 300-850	85,000-190,000
SMW 1200-3500	300,000-850,000
RCW 908-913	80,000-130,000

## GWB™ Industrial Driveshaft




Driveshafts for Industrial Applications

Range	Torque Range Tcs [Nm]	Flange Diameter [mm]
687/688-598	35 up to 21,500	00-225 / 600-1,300
687-688	2,400-35,000	100-225
587	43,000-57,000	225-285
390/392/ 393/492	60,000-1,170,000	225-550
498/598	210,000-15,000,000	600-1,200

Keep Driveshaft - Special Design  
super short coupling, tunnel shaft, high speed design, carbon fiber tube  
electrical insulation, remote lubrication, automatic lubrication,  
condition monitoring


## Brevini™ Pump Drives




BZ

Range	Nominal Power [Kw]
BZ265	110-130
BZ290	170-190
BZ340	220-240
BZ470	380-480


## PIV™ Extruder Drives



Posirex



Positwin



Special Gearboxes for Plastic & Rubber

Range	Nominal Torque [Nm]
XC-XD-XE 16 - 80	5,100-720,000

Range	Centre Distance	Torque / Shaft [Nm]
15B2N 146B2N	15-146	40-35,000



# Motion Systems

## Brevini™ Pumps



Axial Piston Pumps, Variable Displacement, Closed Loop

Range	Displacement [cc/rev]	Max Pressure [bar]
HD1	55	450
S6CV	75-128	400



Axial Piston Pumps, Variable Displacement, Open Loop

Range	Displacement [cc/rev]	Max Pressure [bar]
H1V	54.8-225.1	350



Axial Piston Pumps, Fixed Displacement, Open Loop

Range	Displacement [cc/rev]	Max Pressure [bar]
H1C	6.1-225.1	350
SH11C	10.3-178.1	430



Gear Pumps, Fixed displacement, Open Loop

Range	Displacement [cc/rev]	Max Pressure [bar]
OT groups 1 - 2 - 3	0.73 – 90	270
Hercules group 2	4.1 – 30	270
Silent plus group 2	4.1 – 30	250

## Brevini™ Valves



Pre-Compensated Directional Control Valves

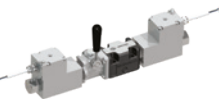
Range	Inlet Flow [l/min]:	Max Pressure [bar]
HPV 41-77-310	160-250-600 (*)	370-370-370

(\*) = per Inlet Section



Bankable Valves

Range	Max Flow [l/min]	Type
CDC3 – CD3M – CD3 – CDH3 – CD5	80	ON/OFF
CX3 – CXQ3 – CXDH3 – CFS3	55	Proportional



CETOP Valves

Range	Inlet Flow [l/min]	Max Pressure [bar]
Size 2 (NG4) – Size 8 (NG25)	up to 600	up to 400

## Brevini™ Motors



Axial Piston Motors, Variable Displacement, Bent Axis

Range	Displacement [cc/rev]	Max Pressure [bar]
SH7V/VR	61-216	430
SH9V	62-216	430



Axial Piston Motors, Fixed Displacement, Bent Axis

Range	Displacement [cc/rev]	Max Pressure [bar]
H1C	6.1-225.1	350
SH11C/CR	10.3-178.1	430



Orbital Motors, Gerotor and Roller

Range	Displacement [cc/rev]	Max Pressure [bar]
BGM, BG	13-400	225 / 165
AR, BR, BRZV	50-400	175
HR, HT	80-500	210



Gear Motors, Fixed Displacement

Range	Displacement [cc/rev]	Max Pressure [bar]
OT groups 1 - 2 - 3	0.73 – 90	260
Hercules gr 2	4.1 – 30	270

## Brevini™ Power Units



Mini Powerpacks

Range	Type
MC	With 4 cavities for single and double acting circuits
FP	With flexible design thanks to multiple valve seats. Several circuits layout available
DTR	Custom Mini Powerpacks for telescopic dock levellers
MK	Custom Mini Powerpack for hanged/swing lip dock levellers



Motorpumps

Range	Type
EP	With Ø115 motors and gr. 1 gear pumps
MP	With Ø80 motors and gr. 0.5 gear pumps



Micro Powerpacks

Range	Type
FR	Micro Powerpack for space demanding applications, 4 cavities for single and double acting circuits
FW	Micro Powerpacks for double acting circuits with reversible pump

## Fairfield® Custom Drives



Jacking System Drives



Tram System Drives



Transfer Case



Custom Drive Components

Range	Max Jacking Torque [Nm]
S60A-S2000	82,000-2,260,00



# Electrification Capabilities

Dana's comprehensive portfolio of drive and motion technologies helps OEMs efficiently transition toward electrification. Our multi-disciplinary team of engineers develops turnkey solutions ranging from plug-and-play components to fully integrated systems.

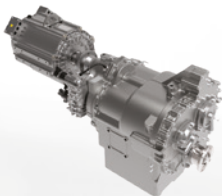
## e-Drive



High Efficiency Transmission



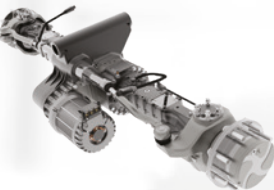
High Efficiency Transmission



e-Powershift Transmission



e-Powershift Transmission



e-Axle Compact



e-Axle Heavy



e-Hub Drive Compact



e-Hub Drive Heavy

## e-Motion



e-Slew Drive



EHPS System

## EV Components



Low-Voltage Motors



Low-Voltage Inverters



On-engine Generators



High-Voltage Traction Systems



High-Voltage Motors



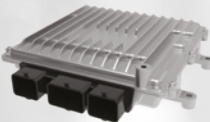
High-Voltage Inverters



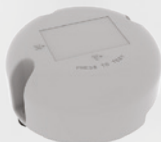
e-Software

## Electronics and Mechatronics

### Electronic Control Units



### Force Sensors



### Position Sensors



Angle Transducer



### CTIS

Inclinometer



# System Solutions

Dana is a world-class collaborator with OEMs in delivering innovative, best-in-class engineering solutions. With resources located near our customers, we can leverage our core competencies in systems development to produce ground-breaking technologies that boost business performance.

Our systems approach is combined with our industry-leading portfolio of advanced technologies to help OEMs maximize the value of their offerings and find a better way forward.

## System Thinking

We adopt a **holistic perspective** to systems that fortifies our offerings

## System Contents

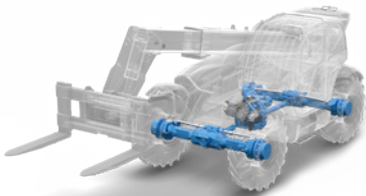
We develop **systems** by using our deep portfolio of innovations to address our **customers' needs**

## Knowledge sharing

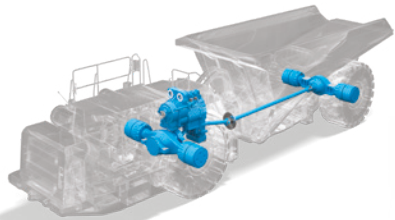
Our culture of **continuous improvement** enables our systems engineering teams to share best practices across markets and geographies

Think Why, Think Wider, Think Systems

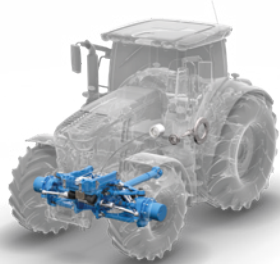
## Conventional



Telehandler



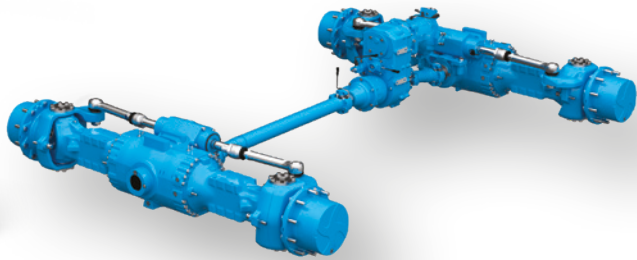
Mining Truck



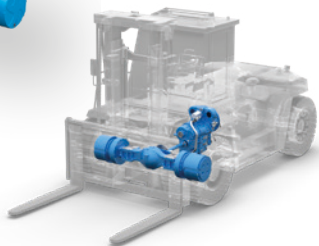
Tractor



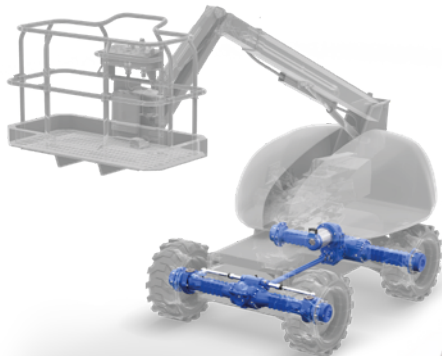
Articulated Boom Lift



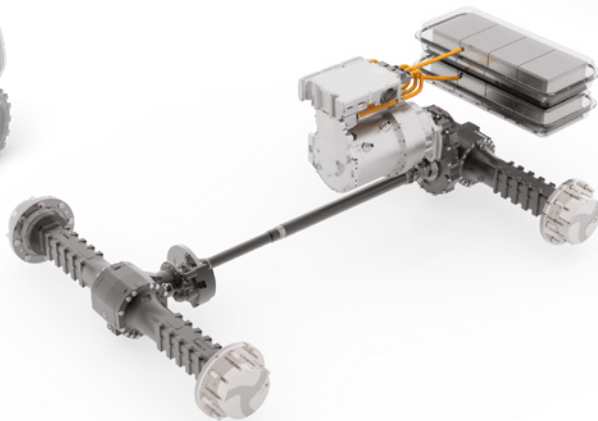
Forklift



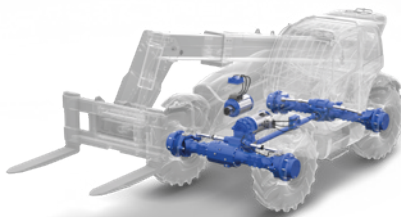
## Electrified



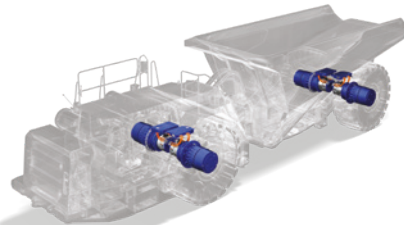
Articulated Boom Lift



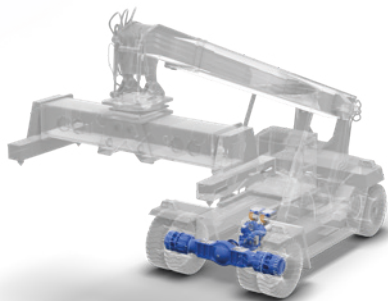
Forklift



Telehandler



Mining Truck



Reach Stacker



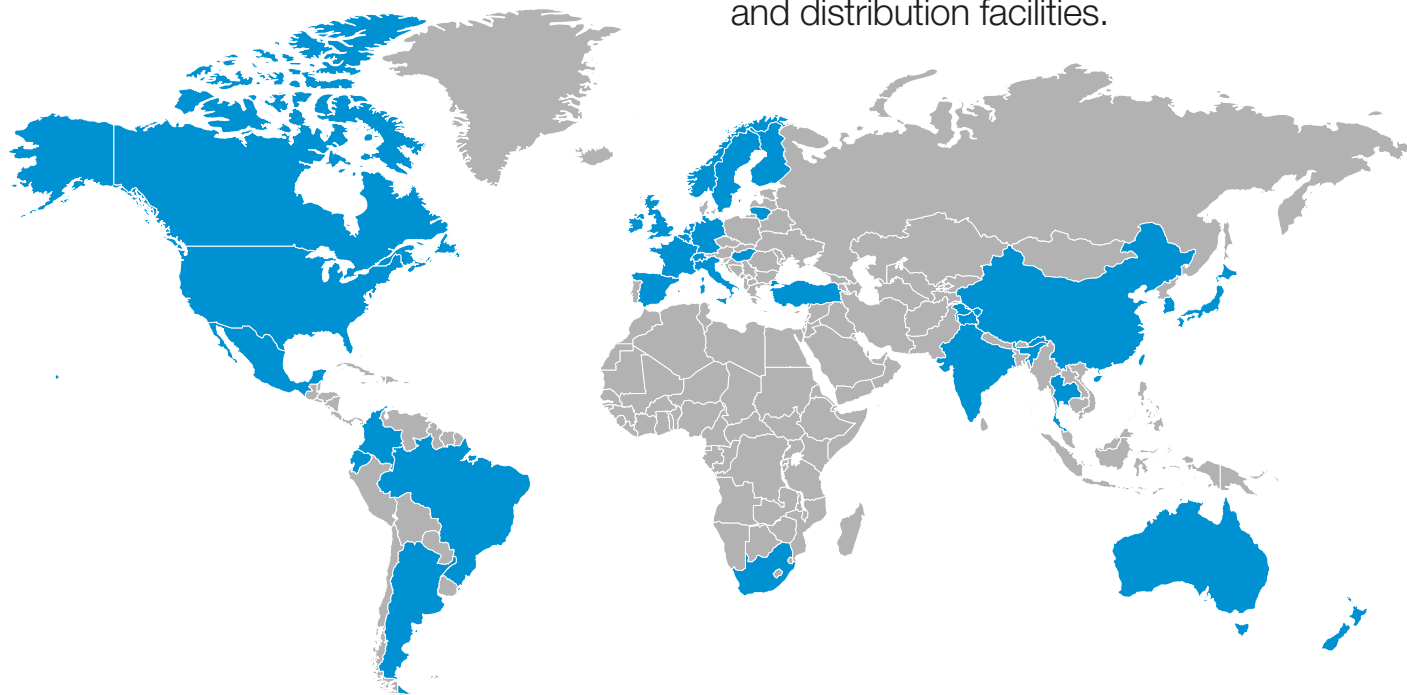
# Global Strength

One of the ways we create value is by **positioning** our technical and manufacturing resources where customers need us globally.

Today, that's **30 countries** on **six continents**.

To help customers achieve success, top-tier suppliers must have a global perspective that can be adapted to meet local requirements and end-user expectations.

Dana's **worldwide leadership** is the key to serving clients around the world. We bring our global expertise to the local level with technologies customized to individual requirements through a network of strategically placed technology centers, manufacturing locations, service and assembly centers and distribution facilities.



Our strength is being over six continents thanks to our global logistic network.

# Aftermarket Services

Our global expertise is delivered to customers at a local level through a constantly growing and improving aftermarket network. Strategically placed service centers provide solutions tailored to individual specifications by an experienced on-the-ground support team. We meet customer needs in every region, on every platform.



## Genuine parts

Dana service parts are manufactured by Dana to the same high standards as original equipment (OE), because they are OE genuine parts. When a part is replaced a complete interchangeability with existing parts provides total product compatibility, with no change in part numbers. A non-original component can lead to significant vehicle costs down the road. We protect your vehicle durability and performance.

## Dana Distribution Centers

Dana's global network of distribution centers, located in Europe, America, Asia and Australia, offer efficient service points supporting regional customer service, inventory, logistics and packaging operations.

## DanaAftermarket.com

### E-Commerce Platform

A technology enabled e-commerce platform that brings Dana's global off-highway network of distribution centers, products, services and premium brands to your device 24/7 to make better decisions, speed up your operations and ease doing business with Dana.

Using DanaAftermarket.com you can quickly:

- Search for part level detail
- View global availability in real time
- Place orders from your phone, desktop or tablet
- Access educational brochures, videos and training
- Order management documentation communicated in real time
- API developer portal enables cross platform integration and real time data exchange

### Spicer™ Drivetrain catalog

The online Spicer™ product catalog features the extensive off-highway axles and driveshaft portfolio. Quickly and conveniently locate products by model type or part number through the search functionality and access to usage descriptions and technical details to select optimal products for every aftermarket need. The product database is always updated as new technologies become available.



# Market-Driven Off-Highway Innovation

## About Dana Incorporated

Over 39,000 Dana dreamers in over 30 countries drive mobility and transportation forward — wherever the road, or offroad, takes our customers and communities.

A leader in the design and manufacture of propulsion and energy-management solutions, Dana powers vehicles and machines in all mobility markets across the globe.

Delivering groundbreaking drive systems. Advancing revolutionary motion technologies. Championing leading-edge power management innovations across thermal technologies for e-Propulsion; controls and software; battery management systems; and fuel cell plates.

With a balanced portfolio — including complete in-house electrification capabilities — Dana provides class-leading products and systems supporting traditional, hybrid, and EV manufacturers. Everywhere.

## About Dana Off-Highway Drive and Motion systems

Dana delivers fully optimized solutions to customers in the construction, agriculture, material handling, mining, and industrial markets.

**Dana.com/oh**  
**Dana-industrial.com/contact-us**

### Application Policy

Capacity ratings, features, and specifications vary depending upon the model and type of service. Application approvals must be obtained from Dana; contact your representative for application approval. We reserve the right to change or modify our product specifications, configurations, or dimensions at any time without notice.

