

# MT SERIES

MECHATRONIC THROTTLE PEDAL SYSTEMS



## AT A GLANCE

- > INNOVATIVE MODULAR DESIGN ALLOWS FOR EASE OF INSTALLATION REGARDLESS OF APPLICATION OR CONFIGURATION
- > vSENSE™ HALL EFFECT NON-CONTACT SENSOR PROVIDES POSITION SENSING AND SWITCHING ACCURACY AND RELIABILITY
- > FULLY USER CUSTOMIZABLE TO FIT A WIDE RANGE OF APPLICATIONS

## PRODUCT DESCRIPTION

The Kongsberg Automotive MT Series mechatronic pedal systems offer easy installation for either floor or suspended applications and provide unsurpassed reliability regardless of load.

The mechatronic pedal features the vSENSE™ non-contact sensor with patent-pending technology, configurable for analog output or electronic switches. Built to exceed all applicable industry standards and requirements, this rugged pedal and sensor system can withstand extreme off-road environments while ensuring precise control and superior performance.

The Kongsberg Automotive vSENSE™ non-contact, programmable Hall effect sensor seals out contaminants to provide enhanced reliability in all environments. With no moving parts to wear over time, the vSENSE™ sensor sets a new standard for accuracy and durability, exceeding IP67 seal rating by performing under dynamic rather than static conditions.



### CONTACT US:

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### EXPLORE KONGSBERG AUTOMOTIVE'S AFTERMARKET RANGE:

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## PART NUMBERS INCLUDED IN THE AFTERMARKET

PART NO.	CROSS-REF. NO.	MAKE	PEDAL MODEL	MATING CONNECTOR
<b>71030N0-289-92IAM</b>	13428472	LIEBHERR	MT7000	DT SERIES 6-PIN PLUG
<b>71040N0-10GD-00IAM</b>	661808	ALEXANDER DENNIS	MT7000	6-PIN PLUG, DUAL OUTPUT
	71040N0-10GD-00		MT7000	6-PIN PLUG, DUAL OUTPUT
	HP09 MT7000	BREMER GMBH	MT7000	6-PIN PLUG, DUAL OUTPUT
	661808	ZHUTAI GUATONG VEHICLE	MT7000	6-PIN PLUG, DUAL OUTPUT
	661808	MI VEHICLE INTEGRATION	MT7000	6-PIN PLUG, DUAL OUTPUT
<b>225539IAM</b>	04407649	DEUTZ AG	MT7000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
<b>225549IAM</b>	335/F7518	JCB	MT7000	DT SERIES 6-PIN PLUG
<b>1001145492IAM</b>	42W-43-42201		MT7000	DT SERIES 6-PIN PLUG
<b>1000980114IAM</b>	5350260102	YANMAR	MT7000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
<b>225544IAM</b>	225544		MT7000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
<b>1000982487IAM</b>	04463270	DEUTZ AG	MT7000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
<b>71020N0-37GD-00IAM</b>	71020N0-37GD-00		MT7000	DT SERIES 6 - PIN PLUG
	71020N0-37GD-00V			
<b>61000N0-10SD-04IAM</b>	61000N0-10SD-04		MT6000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
	61000N0-10SD-04	NHK MEC	MT6000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
	61000N0-10SD-04		MT6000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
	4340404	GOLDHOFER AIRPORT TECHNOLOGY	MT6000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
	61000N0-10SD-04	L M INSTRUMENTATION	MT6000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
<b>225730IAM</b>	333/V3397	JCB	MT7000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
<b>71010N0-57SD-00IAM</b>	13C65-15030-AA	OTOKAR	MT7000	AMP 6 PIN SUPER SEAL, DUAL OUTPUT
<b>71030N0-10SD-04IAM</b>	68044302	KONECRANES LIFTTRUCKS	MT7000	DELPHI 6 PIN SEALED, METRI-PACK 150 SERIES, PULL-TO-SEAT OR GT 150 SERIES, PUSH-TO-SEAT
<b>1001122843IAM</b>	5350260110	YANMAR	MT7000	DELPHI 6 PIN SEALED, METRI-PACK 150 SERIES, PULL-TO-SEAT OR GT 150 SERIES, PUSH-TO-SEAT

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225795IAM	310073	ADIGO DRIVES AB	MT7000	DELPHI 6 PIN SEALED, METRI-PACK 150 SERIES, PULL-TO-SEAT OR GT 150 SERIES, PUSH-TO-SEAT
	55050773	KONECRANES LIFTTRUCKS	MT7000	DELPHI 6 PIN SEALED, METRI-PACK 150 SERIES, PULL-TO-SEAT OR GT 150 SERIES, PUSH-TO-SEAT
225546IAM	334/V8962	JCB	MT7000	PACKARD ELECTRIC METRI-PACK 150 SERIES, PULL-TO-SEAT 6 PIN SEALED
71040N0-47SI-01IAM	71040N0-47SI-01	VOLVO CE	MT7000	SINGLE OUTPUT W/IVS, DELPHI WEATHER PACK: SHROUD CONNECTOR 12010717, DELPHI WEATHER PACK: TOWER CONNECTOR 12015793
	71040N0-47SI-01	MACHINERY OY	MT7000	SINGLE OUTPUT W/IVS, DELPHI WEATHER PACK: SHROUD CONNECTOR 12010717, DELPHI WEATHER PACK: TOWER CONNECTOR 12015793
	0505433	SEKURA CABINS	MT7000	SINGLE OUTPUT W/IVS, DELPHI WEATHER PACK: SHROUD CONNECTOR 12010717, DELPHI WEATHER PACK: TOWER CONNECTOR 12015793
	970.892		MT7000	SINGLE OUTPUT W/IVS, DELPHI WEATHER PACK: SHROUD CONNECTOR 12010717, DELPHI WEATHER PACK: TOWER CONNECTOR 12015793
71010N0-37GD-04IAM	71010N0-37GD-04	ADIGO DRIVES AB	MT7000	DT SERIES 6 - PIN PLUG
	0503712	SOLUCIONES GENERALES DE	MT7000	DT SERIES 6 - PIN PLUG
	71010N0-37GD-04		MT7000	DT SERIES 6 - PIN PLUG
225707IAM	728/34600	JCB	MT7000	DT SERIES 6 - PIN PLUG
71030N0-47SD-00IAM	71030N0-47SD-00		MT7000	DUAL OUTPUT, DELPHI WEATHER PACK: SHROUD CONNECTOR 12010717, DELPHI WEATHER PACK: TOWER CONNECTOR 12015793
1001274707AM	61000N0-61SD-00	CUMMINS	MT6000	RECEPTABLE HOUSING, AMP-MQS, 6-PIN DUAL OUTPUT
		DONGFENG TRUCKS	MT6000	RECEPTABLE HOUSING, AMP-MQS, 6-PIN DUAL OUTPUT
		FOTON	MT6000	RECEPTABLE HOUSING, AMP-MQS, 6-PIN DUAL OUTPUT
1001274706AM	61000N0-61SR-34	CUMMINS	MT6000	AMP-MQS, 6-PIN, SINGLE OUTPUT W/IVS
		DONGFENG TRUCKS	MT6000	AMP-MQS, 6-PIN, SINGLE OUTPUT W/IVS
		FOTON	MT6000	AMP-MQS, 6-PIN, SINGLE OUTPUT W/IVS
1001274708AM	71040N0-27SD-00	SHANGHAI DIESEL	MT7000	DT06-3S-CE06, CONNECTOR 3 WAY PLUG, DT04-3P-CE02, CONNECTOR 3 WAY RECEPTABLE, DUAL OUTPUT
		VOLVO CE	MT7000	DT06-3S-CE06, CONNECTOR 3 WAY PLUG, DT04-3P-CE02, CONNECTOR 3 WAY RECEPTABLE, DUAL OUTPUT
1001274709AM	61000N0-51SD-42	CUMMINS	MT6000	AMP, 6-PIN SUPER SEAL, DUAL OUTPUT
		DONGFENG TRUCKS	MT6000	AMP, 6-PIN SUPER SEAL, DUAL OUTPUT
		FOTON	MT6000	AMP, 6-PIN SUPER SEAL, DUAL OUTPUT

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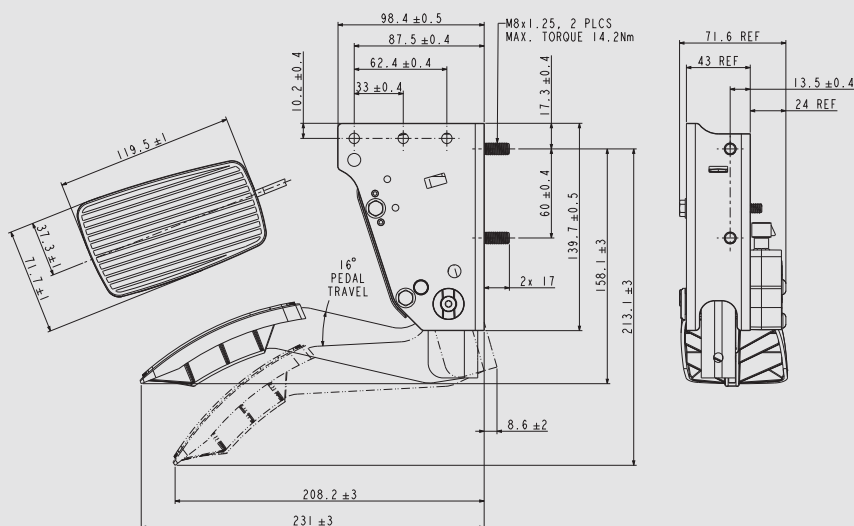
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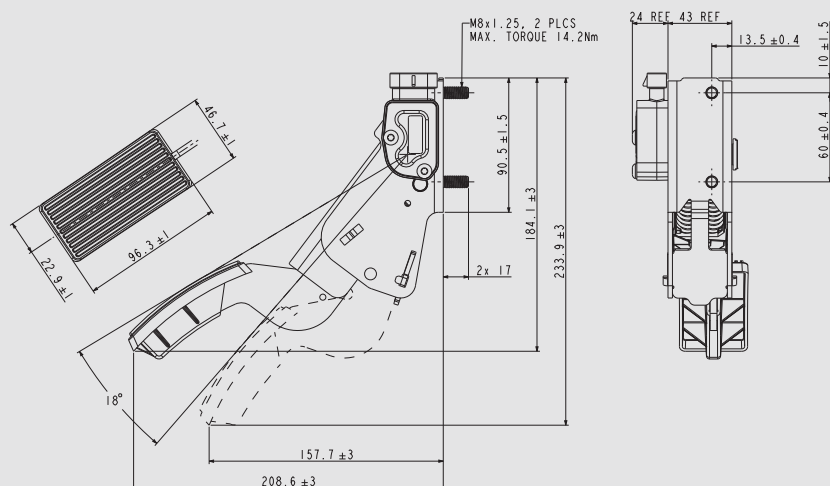


## PRODUCT SPECIFICATIONS

### MT5000 SERIES SUSPENDED PEDAL



### MT6000 SERIES SUSPENDED PEDAL



## MT5000 / MT 6000 FEATURES

- > ALLOWS FOR "CLEAN FLOOR" ACCESS
- > INTEGRATED STANDARD M6 SIDE MOUNTING NUTS
- > EXCEEDS 350LB DOWNLOAD

## MT5000 / MT6000 OPTIONS

- > CONNECTOR TYPE
  - » STANDARD INTEGRATED METRIPACK CONNECTOR
  - » CUSTOMIZED CONNECTORS AND LEADS
- > KICK DOWN
- > WIDE OR NARROW TREADLE
- > SENSOR OUTPUT
  - » STANDARD INTEGRATED METRIPACK CONNECTOR
  - » CUSTOMIZED CONNECTORS AND LEADS
- > INTEGRATED MOUNTING STUDS FOR THROUGH-WALL MOUNTING (MT6000)

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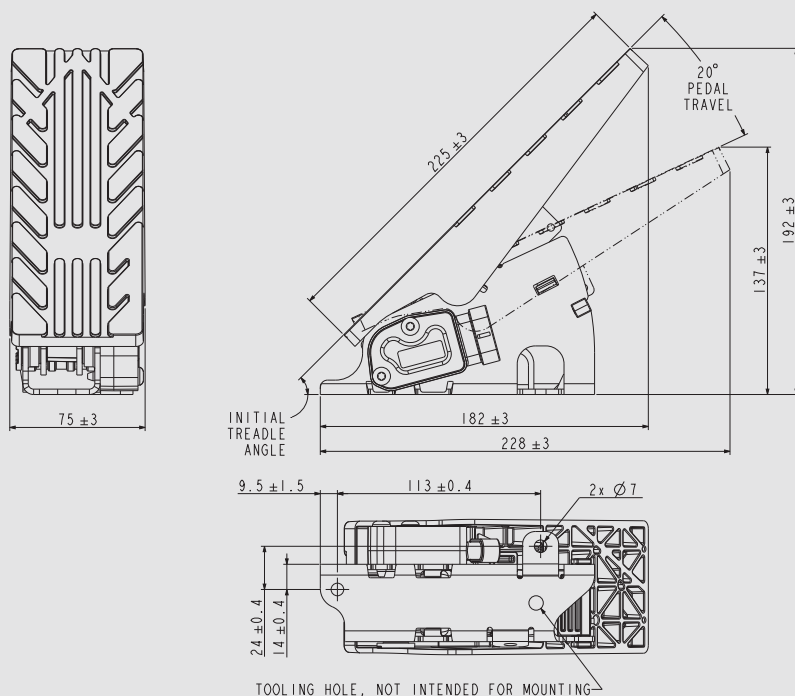
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## PRODUCT SPECIFICATIONS

### MT7000 SERIES SUSPENDED PEDAL



## MT7000 FEATURES

- > EASY ACCESS MOUNTING
- > PINCH FREE HEEL DESIGN PREVENTS INTRUSION OF DEBRIS THAT COULD INTERFERE WITH PEDAL MOVEMENT
- > EQUIPPED WITH SOLID COMPOSITE TREADLE WITH PATTERNED SURFACE TO MINIMIZE FOOT SLIPPAGE

## MT7000 OPTIONS

- > CONNECTOR TYPE
- > KICK DOWN
- > RUBBER PEDAL COVER
- > SENSOR OUTPUT
  - » STANDARD INTEGRATED METRIPACK CONNECTOR
  - » CUSTOMIZED CONNECTORS AND LEADS

PARAMETERS	SPECIFICATIONS
RATED LIFE	1,000,000 CYCLES
PEDAL ACTUATION FORCE: <ul style="list-style-type: none"><li>- MT5000</li><li>- MT6000</li><li>- MT7000</li></ul>	5.5LB (24.5N) IDLE : 7.5LB (33.4N) WOT 5.5LB (24.5N) IDLE : 7.5LB (33.4N) WOT 6.5LB (28.9N) IDLE : 8.5LB (37.8N) WOT
TREADLE	FIXED
LOAD RATING 3	350LB (1557 N) DOWNLOAD
STANDARD MECHANICAL HYSTERESIS	25%
SPECIFICATION COMPLIANCES	FMVSS 124; ASTM B 117-97, SAE J1843, SAE J1455, KA PS-461, PS-462, PS-465
PEDAL TYPES: <ul style="list-style-type: none"><li>- MT5000</li><li>- MT6000</li><li>- MT7000</li></ul>	SUSPENDED HIGH PIVOT SUSPENDED LOW PIVOT FLOOR
OPERATING TEMPERATURE	-40°C TO +85°C

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## PRODUCT SPECIFICATIONS

### SENSOR

PARAMETERS	SPECIFICATIONS
TEMPERATURE OPERATING RANGE	-40°C TO +85°C
FUNCTIONAL LIFE (FULL ROTATION)	30M CYCLES
SUPPLY CURRENT DRAW	MAX. 10MA PER OUTPUT
MAX. CONTINUOUS VOLTAGE ON SWITCH	+50V
MAX. CONTINUOUS OPERATING SWITCH CURRENT	20MA
OUTPUT RANGE (PROGRAMMABLE) WITHIN: - MINIMUM - MAXIMUM	>7% OF SUPPLY VOLTAGE <90% OF SUPPLY VOLTAGE

### ELECTRICAL SPECIFICATIONS FOR RATIO METRIC VOLTAGE OUTPUT

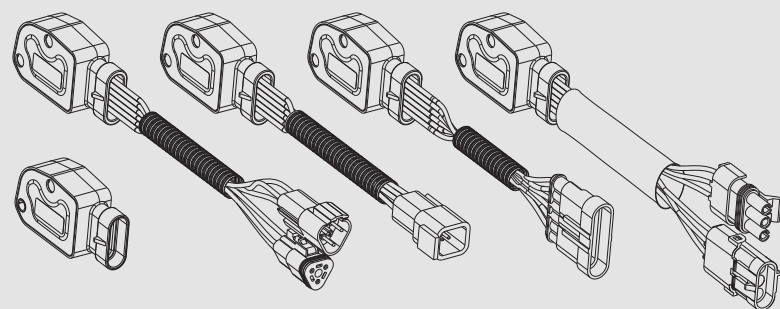
SUPPLY (REFERENCE) VOLTAGE	5V ± 0.5 V
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### ENVIRONMENTAL SPECIFICATION

EMC	150V/M
ESD	±15KV
SEAL COMPLIANT	IP67
CHEMICAL RESISTANCE PER.	SAEJ1455

### CONFIGURATION

- PROGRAMMABLE FOR DUAL/SINGLE ANALOG
- PROGRAMMABLE FOR IDLE VALIDATION SWITCH



## SENSOR FEATURES

- > SEALED EXTERNAL DESIGN:
  - » NO ROTATING SHAFT SEAL WEAR
  - » NO MECHANICAL WEAR POINTS
- > EXCELLENT EMI PROTECTION
- > INTEGRATED CONNECTOR
- > FULLY PROGRAMMABLE

## SENSOR OPTIONS

- > SINGLE OR DUAL OUTPUTS
  - » ANALOG
  - » ELECTRONIC IDLE VALIDATION SWITCH
  - » PULSE WIDTH MODULATION
- > FLYING LEADS WITH ALL CONNECTOR TYPES

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