

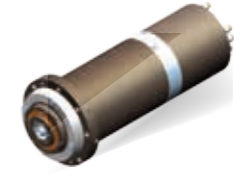
Elektrospindeln für die Bearbeitung
von Metall & Composites
Electrospindles for Metal, Alloys
& Composites machining

MORE VALUE FOR YOUR MACHINE.

HSD[®]
MECHATRONICS



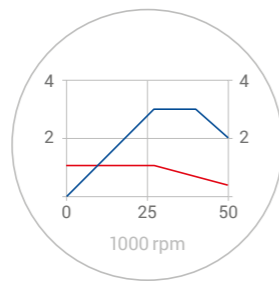
Reihe mit
Körperdurchmesser
von $\varnothing 80$ bis $\varnothing 170$
Body diameter range
from $\varnothing 80$ to $\varnothing 170$



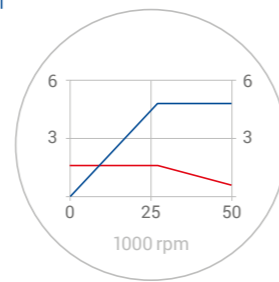
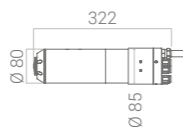
ELEKTROSPINDELN ELECTROSPINDLES		ES327 HSK E25	ES328 HSK E25	ES329 HSK E32
Gehäusedurchmesser Body Diameter	mm	80	90	100
Drehmoment S1/S6 Torque S1/S6	Nm	1/1,3Nm	1,8/2,1Nm	3,2/3,8Nm
Leistung S1/S6 Power S1/S6	kW	3/3,6kW	5/6kW	6/7,2kW
Motortechnologie Motor Technology		Asynchronous	Asynchronous	Asynchronous
Werkzeugwechsel Tool Release		Pneumatic	Pneumatic	Pneumatic
Stromversorgung Rated Voltage	V	220 or 380	220	380
Option Encoder Option Encoder		No	No	No
Anzahl Pole Poles		4	4	4
Vordere/Hintere Lager Front/ Rear Bearings		Ceramic	Ceramic	Ceramic
Lagerschmierung Bearings Lubrication		Grease	Grease	Grease
Maximale Frequenz Max Frequency	Hz	1333/1667	1667	1333
Maximaldrehzahl Max Speed	rpm	40000 or 50000	50000	40000
Nenn Drehzahl Rated Speed	rpm	27000	27000	18000
Gewicht Weight	kg	8	10	16
Option Drehdurchführung Option Coolant Through Shaft		No	No	No
Kühlung Cooling		Liquid	Liquid	Liquid

	ES334 BT30/HSK E40	ES505 HSK A63	ES505 HT HSK A63	ES332 HSK A40/E40	ES508 HSK A63
Body Diameter	120	140	140	150	170
Torque S1/S6	5,7/6,8Nm	30/36Nm	48/57,5Nm	10,3/12,3Nm	30/36Nm
Power S1/S6	3,6/4,3kW	25/30kW	40/48kW	13/15,6kW	25/30kW
Motor Technology	Asynchronous	Synchronous	Synchronous	Asynchronous	Synchronous
Tool Release	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Rated Voltage	220 or 380	536	536	380	536
Option Encoder	LB 1 Vpp	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL
Poles	4	6	6	4	6
Front/ Rear Bearings	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Bearings Lubrication	Air-oil	Grease or Air-oil	Grease or Air-oil	Grease or Air-oil	Grease or Air-oil
Max Frequency	1000	1000/1200	1000/1200	800/1066	1200
Max Speed	30000	20000 Grease 24000 Air-oil	20000 Grease 24000 Air-oil	24000 Grease 32000 Air-oil	24000 Air-oil 18000 Grease
Rated Speed	6000	8000	8000	12000	8000
Weight	27	34	37,5	35	55
Option Coolant Through Shaft	No	High Pressure	High Pressure	High Pressure	High Pressure
Cooling	Liquid	Liquid	Liquid	Liquid	Liquid

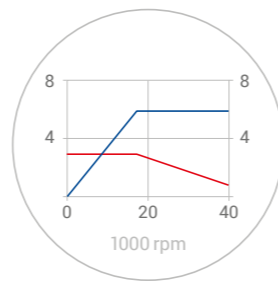
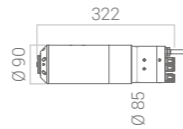
* Measurements are in mm



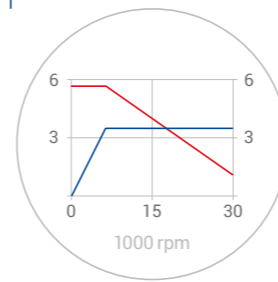
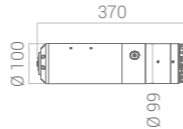
— [kW] S1
— [Nm] S1



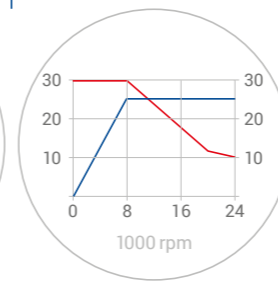
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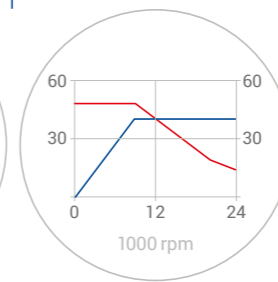
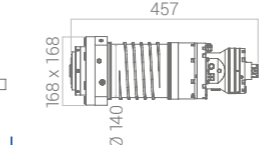
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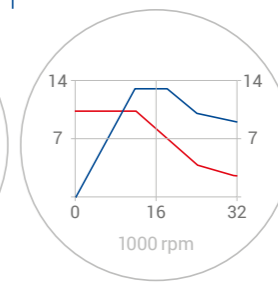
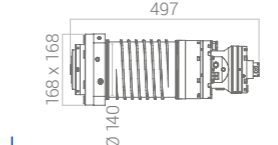
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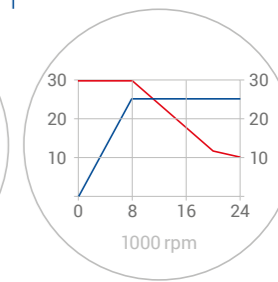
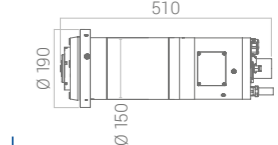
— [kW] S1
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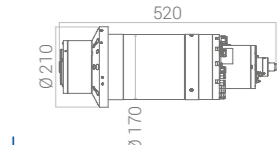
— [kW] S1
— [Nm] S1



— [kW] S1
— [Nm] S1



— [kW] S1
— [Nm] S1



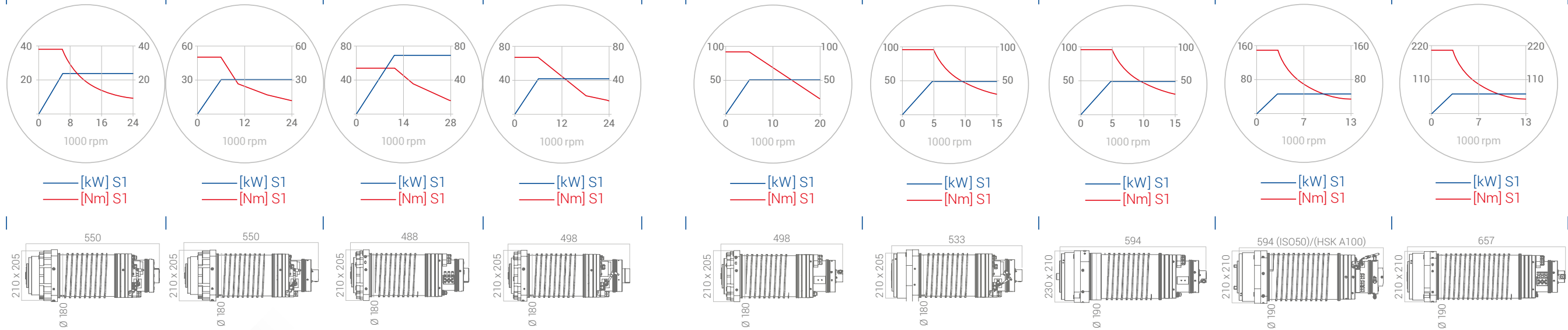
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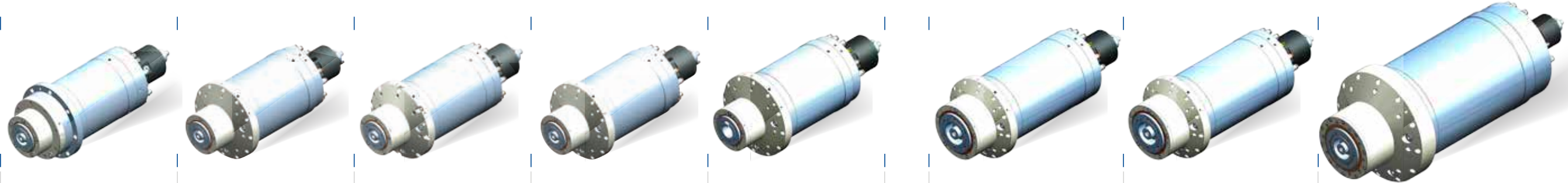
Reihe mit
Körperdurchmesser
von $\varnothing 180$ bis $\varnothing 350$
Body range diameter
from $\varnothing 180$ to $\varnothing 350$



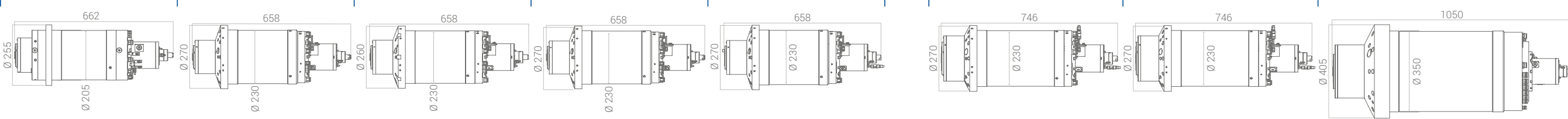
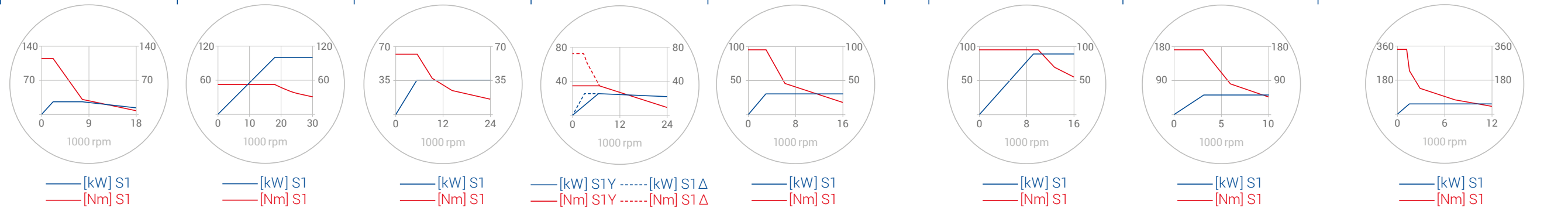
ELEKTROSPINDELN ELECTROSPINDLES		ES510 HSK A63	ES510 HSK A63	ES510 HSK A63	ES510 HSK A63	ES510 HSK A63	ES510 HSK A100	ES511 TURNING ISO50	ES511 ISO 50/HSK A100	ES511 HSK A100
Gehäusedurchmesser Body Diameter	mm	180	180	180	180	180	180	190	190	190
Drehmoment S1/S6 Torque S1/S6	Nm	38/46Nm	48/57Nm	55,7/75,2Nm	67/87,5Nm	90/120Nm	95,5/124Nm	95,5/124Nm	150/202Nm	200/241Nm
Leistung S1/S6 Power S1/S6	kW	24/28,8kW	30/36kW	70/94,5kW	42/55kW	50/67,5kW	50/65kW	50/65kW	47/63kW	63/76kW
Motortechnologie Motor Technology		Asynchronous	Asynchronous	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous	Synchronous
Werkzeugwechsel Tool Release		Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic
Stromversorgung Rated Voltage	V	380	380	477	566	616	540	540	567	615
Option Encoder Option Encoder		LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL
Anzahl Pole Poles		6	6	4	4	6	6	6	8	8
Vordere/Hintere Lager Front/ Rear Bearings		Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic
Lagerschmierung Bearings Lubrication		Grease or Air-oil	Grease or Air-oil	Air-oil	Grease or Air-oil	Air-oil	Grease or Air-oil	Grease or Air-oil	Grease or Air-oil	Grease or Air-oil
Maximale Frequenz Max Frequency	Hz	900/1200	900/1200	933	600/800	1000	600/750	600/750	533/800/866	800/866
Maximaldrehzahl Max Speed	rpm	18000 Grease 24000 Air-oil	18000 Grease 24000 Air-oil	28000	18000 Grease 24000 Air-oil	20000	12000 Grease 15000 Air-oil	12000 Grease 15000 Air-oil	8000 Grease (ISO50) 12000 Grease (A100) 13000 Air-oil (A100)	12000 Grease 13000 Air-oil
Nenn Drehzahl Rated Speed	rpm	6000	6000	12000	6000	5300	5000	5000	3000	3000
Gewicht Weight	kg	65+30 Housing	65	65	65+30 Housing	67	80+40 Housing	93	85	105
Option Drehdurchführung Option Coolant Through Shaft		High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure
Kühlung Cooling		Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid

* Measurements are in mm





ES550 HSK A63	ES575 HSK A63	ES575 HSK A63	ES575 HSK A63	ES575 BT40/ISO40	ES575 HSK A100	ES575 HSK A100	ES650 HSK A100		ELEKTROSPINDELN ELECTROSPINDLES
210	230	230	230	230	230	230	350	mm	Gehäusedurchmesser Body Diameter
124/149Nm	53/64Nm	61,7/74Nm	72/87Nm Y 34,5/41,5Nm Δ	95,5/114,5Nm	95,5/119Nm	170/216Nm	350/420Nm	Nm	Drehmoment S1/S6 Torque S1/S6
26/31kW	100/120kW	35/42kW	25/30kW Y 25/30kW Δ	30/36kW	90/112kW	54/68kW	55/66kW	kW	Leistung S1/S6 Power S1/S6
Asynchronous	Asynchronous	Asynchronous	Asynchronous Y/Δ	Asynchronous	Asynchronous	Asynchronous	Asynchronous Y/Δ		Motortechnologie Motor Technology
Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic	Hydraulic		Werkzeugwechsel Tool Release
380	380	380	380	380	380	380	380	V	Stromversorgung Rated Voltage
LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL	LB 1 Vpp or TTL		Option Encoder Option Encoder
8	4	4	4	8	4	8	8		Anzahl Pole Poles
Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic	Ceramic		Vordere/Hintere Lager Front/ Rear Bearings
Grease	Air-oil	Grease or Air-oil	Air-oil	Grease or Air-oil	Air-oil	Air-oil	Grease or Air-oil		Lagerschmierung Bearings Lubrication
1200	1000	600/800	800	1067	533	667	533/800	Hz	Maximale Frequenz Max Frequency
18000	30000	18000 Grease 24000 Air-oil	24000	16000	16000	10000	8000 Grease 12000 Air-oil	rpm	Maximaldrehzahl Max Speed
2000	18000	5400	3300 Y - 6900 Δ	3000	9000	3000	1500	rpm	Nenn-drehzahl Rated Speed
105	120	110	120	120	150	150	500	kg	Gewicht Weight
High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure	High Pressure		Option Drehdurchführung Option Coolant Through Shaft
Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid	Liquid		Kühlung Cooling



Elektrospindeln für die Bearbeitung von Metall & Composites
Electrospindles for Metal, Alloys & Composites Machining



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